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1847

PROCEEDINGS

OF THE

MADRAS GOVERNMENT

IN THE

PUBLIC WORKS DEPARTMENT

BUILDINGS AND ROADS BRANCH,

FOR

THE MONTH OF DECEMBER 1877.

Printed by Authority.

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PUBLIC WORKS DEPARTMENT.

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181, 182	*Police Stations and Huts, South Canara District.*—Sanctions for execution the estimates approved by the Police Department for certain —.	19th Dec. No. 2,157 W.	....	24th Feb. 1874, No. 462. 26th Oct, 1875, No. 163, Mis.	Ibid
182 A, 182 B	*Road tunnels in the town of Bezwada, Kistna District.*—The estimate for repairing two — forwarded for disposal to the District Engineer.	19th Dec. No. 2,172 W.	....	7th May 1877, No. 59 W, Mis.	1260
183, 184	*Road between Madura and Tinnevelly, Madura District.*—The employment of contractors prohibited, and the District Engineer to report the person in fault for employing people not in need of relief on the repairs to the —.	20th Dec. No. 2,187 W.	....	27th Sept, 1877, No. 791 W. 28th Sept, 1877, No. 801 W, 24th Sept. 1877, No. 2,847, R.D, 20th Nov. 1877, No. 2,824 R.D.	1261
185, 186	*Missing Tools, Godavery District.*—The District Engineer's proposals to recover from Overseers Mahoney and Venkatasami the value of certain —, approved.	20th Dec. No. 2,188 W.	....	....	1262
187, 188	*Local Funds.*—The District Engineer, South Canara's, letter showing the allotments, expenditure and untilized balances of —, communicated to the Board of Revenue.	20th Dec. No. 2,189 W.	....	15th Nov. 1877, No. 1,661 W.	1263
189, 190	*Sappers and Miners employed in the Bellary District.*—The Military Department informed that the Company of — are at their disposal.	20th Dec. No. 2,190 W.	....	26th Feb. 1877, No. 393, Mis.	1264
191	*Matting used either in the Perambore or Salt Cotaur Famine Relief Camps.*—The District Engineer, Presidency, directed to forward to Gorriattum to the care of the Thasildar at that station 6,000 square feet of the —.	20th Dec. No. 2,197 W.	....	....	Ibid
192, 193	*Mud Boats for the Paumben Channel, Madura District.*—Sanctions revised estimate for constructing four —.	21st Dec. No. 2,204 W.	....	9th Sept. 1876, No. 2,391.	1265

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
194, 195	*Police Stations and Huts, South Canara District.*—The Inspector-General of Police informed that orders have already been passed sanctioning the estimates for certain —, but that no appropriation of funds has been made.	1877. 21st Dec. No. 2,205 W.	....	19th Dec. 1877, No. 2,157 W.	1265
196, 197	*Mr. W. M. Montserrat.*—The arrears of vernacular fine due by — permitted to be paid in four instalments commencing from February 1878.	21st Dec. No. 2,208 W.	....	....	1266
198, 199	*Objectionable Items.*—Orders on statement of — in the accounts of Executive Officers for the month of September 1877 under Provincial.	22nd Dec. No. 2,222 W.	....	3rd Dec. 1877, No. 1,932 W. 30th Nov. 1877, No. 1,891 W. 26th Nov. 1877, No. 1,792 W. 26th Nov. 1877, No. 1,785 W. 12th Oct. 1877, No. 988 W. 4th Aug. 1877, No. 532 W. 17th July 1877, No. 431 W.	1267
200, 201	*Vedaeniem Canal, Tanjore District.*—Proceedings, Board of Revenue, cancelling the allotment of Rupees 6,750 in Budget for the —, communicated to the District Engineer.	22nd Dec. No. 2,223 W.	....	....	1274
202, 203	*Cannanore Flagstaff.*—Letter from the Master Attendant, Madras, returning with remarks an indent for appliances required annually for hoisting and lowering the top-mast of the —, communicated to the District Engineer, Malabar, for information and guidance.	22nd Dec. No. 2,224 W.	....	....	Ibid
204, 205	*Bodinaickanur Minor's Bungalow at Madura.*—Proceedings, Board of Revenue, submitting list showing the establishment employed on the —, recorded.	22nd Dec. No. 2,225 W.	....	7th July 1877, No. 372 W.	1275
206, 207	*Post Office at Quilon, Malabar District.*—The execution by the Postal Department of the work of repairing the — approved.	22nd Dec. No. 2,226 W.	....	28th Sept. 1877, No. 794 W.	1276
208, 209	*Madras Harbour Works.*—Report of the excesses in the accounts of the — for October 1877, recorded.	22nd Dec. No. 2,227 W.	....	26th Nov. 1877, No. 1,783 W.	1277
210, 211	*Traveller's Bungalow at Tholoodoor, South Arcot District.*—Sanctions estimate for altering into a Police Station the —.	22nd Dec. No. 2,228 W.	....	15th Jan. 1877, No. 132.	1278
212, 213	*Lunatic Asylum, Madras.*—Sanctions plan and estimate for two pucka brick wells sunk at the —.	22nd Dec. No. 2,229 W.	....	26th Nov. 1877, No. 1,792 W. 27th Aug. 1877, No. 651 W.	1279

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
214, 215	*Sappers and Miners*—The District Engineer, Salem, to report the number and kind of men he requires of the —.	1877. 26th Dec. No. 2,235 W.	....	....	1280
216, 217	*Bellamkondah Station-house, Kistna District.*—Revised estimate of Rupees 530 for constructing the — sanctioned.	27th Dec. No. 2,240 W.	....	4th Aug. 1877, No. 532 W.	Ibid
218, 219	*Packing Account* of Public Works Stores shipped for Mysore per S.S. *Sultan* forwarded to the Home Government.	27th Dec. No. 2,241 W.	....	....	1281
220.	The Home Government furnished with the above.	27th Dec. No. 2,242 W.	....	....	Ibid
221, 222	*Mr. G. H. Faulkner.*—The Examiner directed to admit the claim of — for conveyance allowance.	27th Dec. No. 2,243 W.	....	....	1282
223, 224	*Report on Public Instruction in the Madras Presidency for* 1875-76.—Proceedings, Ecclesiastical Department, reviewing the — recorded.	27th Dec. No. 2,244 W.	....	....	Ibid
225, 226	*Famine Establishment transferred to the Public Works by the Revenue Department.*—The Examiner directed to accept the titles, scales of pay and horse allowances of —.	27th Dec. No, 2,245 W.	....	....	1283
227, 228	*Mr. H. Lyon, Assistant Engineer.*—Declines to re-open the case of —.	27th Dec. No. 2,246 W.	....	1st Dec. 1877, No. 1,901 W.	1284
229, 230	*Mr. Executive Engineer Pemberton, South Arcot District.*—The grant of full pay to — during his absence on sick leave declined.	29th Dec. No. 2,247 W.	....	....	Ibid
231, 232	*Palar Bridge near Vellore, North Arcot District.*—Proceedings of the Board of Revenue recording, with remarks, Public Works Proceedings communicating letter from the District Engineer pointing out a discrepancy in the amount of expenditure on the restoration of the —, communicated to the District Engineer, North Arcot.	29th Dec. No. 2,249 W.	....	13th Nov. 1877, No. 1,620 W. 28th Nov. 1877, No. 1,844 W.	1285

BUILDINGS AND ROADS BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT,

FOR THE MONTH OF DECEMBER 1877.

General.

Account.

Read the following paper:—

No. 1. Endorsement of the Under Secretary to Government, Financial Department, dated Fort St. George, 26th November 1877, No. 2,189.

From the Acting Commissioner of Nilgiris, to the Chief Secretary to Government, Madras, dated Ootacamund, 19th November 1877.

WITH reference to Proceedings of Government, dated 21st September 1877, No. 2,359, Financial Department, I have the honor to forward an extract from the Proceedings of the Municipal Commissioners of Coonoor, dated 17th ultimo, and to request that the Government will be pleased to repay to the Municipal Commissioners the sum of Rupees 500, advanced by them for the repair of the through roads within Municipal limits of which Government in their Order of 5th February 1877, No. 413, undertook the up-keep.

2. The balance of the up-keep allotment for the roads is Rupees 1,320.

Extract from Minutes of Proceedings of the Municipal Commissioners for the Town of Coonoor, dated 17th October 1877.

READ G.O. No. 2,359, dated 21st September 1877.

Municipal Roads.—Opinion expressed that the Coonoor Municipality should be required to pay the amount needed for the completion of the road between Mr. Kirby's gate and the public road at Coonoor.

Government in their Proceedings No. 413, dated 5th February, have struck out Rs. 1,820, which was formerly contributed by the Local Funds Board for the up-keep of through roads in the Municipality, promising in the place thereof to undertake the up-keep; but when the District Engineer was applied to, to repair the roads in question, the Commissioners were informed that there were no funds available; in consequence the Municipality had to devote funds for the purpose rather than see the roads destroyed for want of proper care. Rupees 500 have been allotted for this purpose and the Municipality are left without funds for any more repairs for the present. If the Government will return the Rupees 500 which they have been obliged to spend

on roads acknowledged by Government to be under their care, the Municipality will be glad to pay for the repairs, &c., of Mr. Kirby's road in accordance with the opinion of Government as set forth in the above order.

(Signed) C. A. ANDREWS,
Vice President.

TRANSFERRED to the Public Works Department, with reference to paragraph 3, G.O., Financial Department, dated 5th February 1877, No. 413.

(Signed) J. STURROCK,
Under Secretary.

No. 2. ORDER THEREON, 1st December 1877, No. 1,898 W.

THE District Engineer, Nilgiris, will repay the expenditure incurred by the Coonoor Municipality from the sum sanctioned in G.O. No. 379 W, dated 7th July 1877.

2. It is not understood why the roads were not attended to by the District Engineer in the first instance.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 3. From the General Superintendent, Public Works Workshops, dated 19th September 1877, No. 2,065.

No. 3-A. Endorsement of the Consulting Engineer for Railways, dated 26th September 1877, No. 473.

From MESSRS. ARBUTHNOT AND Co., Secretaries and Treasurers, Napier Foundry Company (Limited), to Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, dated Madras, 25th September 1877.

REFERRING to our letter of 9th ultimo, we have the honor to inquire whether it is probable that Government will be able to adopt the suggestion made therein that these works should be taken up for the manufacture of castings required by the Railway Companies of Southern India.

2. The Directors are anxious to see some definite arrangement for the disposal of the works by lease or sale, and a definite reply from Government would enable them to answer inquiries from other quarters.

TRANSFERRED to the Secretary to Government, Public Works Department, in continuation of previous papers.

(Signed) J. H. M. SHAW-STEWART, Lt.-Col., R.E.,
Consulting Engineer for Railways.

No. 4. ORDER THEREON, 1st December 1877, No. 1,899 W.

HIS GRACE the Governor in Council sees no reason in favor of Government taking up the Foundry which, in private hands, might have a large amount of castings for Government given over to it.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 5.	From the District Engr., Nellore, dated	30th	Sept.	1877,	No. 2,304.
No. 5-A.	Telegram from the District Engr., Nellore, dated	2nd	Oct.	1877.	
No. 5-B.	From Mr. H. LYON,	,, 5th	,,	,,	
No. 5-C.	From do. do.,	,, 7th	,,	,,	
No. 5-D.	From do. do.,	,, 14th	,,	,,	No. 8.
No. 5-E.	From the Dist. Engr., Nellore, dated	18th	October	1877,	No. 2,557.
No. 5-F.	From do. do. do., ,,	18th	,,	,,	,, 2,563.
No. 5-G.	From do. do. do., ,,	19th	,,	,,	,, 2,575.
No 5-H.	From do. do. do., ,,	19th	,,	,,	,, 2,576.
No. 5-I.	From Mr. H. LYON, ,,	21st	,,	,,	,, 15.
No. 5-J.	From the Dist. Engr., Nellore, ,,	22nd	,,	,,	,, 2,618.
No. 5-K.	From do. do. do., ,,	30th	,,	,,	,, 2,726.
No. 5-L.	From do. do. do., ,,	31st	,,	,,	,, 2,745.
No. 5-M.	From Mr. H. LYON, ,,	5th	Nov.	,,	,, 27.
No. 5-N.	From the Dist. Engr., Nellore, ,,	5th	,,	,,	
No. 5-O.	From do. do. do., ,,	7th	,,	,,	,, 2,850.
No. 5-P.	Telegram from Mr. H. LYON, ,,	8th	,,	,,	
No. 5-Q.	From the Dist. Engr., Nellore, ,,	17th	,,	,,	
No. 5-R.	From Mr. H. LYON, ,,	28th	,,	,,	

No. 6. Order thereon, 1st December 1877, No. 1,901 W.

His Grace the Governor in Council observes that Mr. Lyon has been grossly insubordinate and insolent to his superior officer, who appears to have dealt fairly, and by no means harshly, with him. Mr. Lyon also charges the District Engineer with "wilful dishonesty." No dates or amounts are given in support of the charge, which is generally to the effect that Mr. O'Shaughnessy has drawn travelling allowances in excess of, or unauthorised by, regulation. When called upon to substantiate the charge Mr. Lyon wrote expressing his wish to be allowed to withdraw it; he then, in two days after, telegraphs to cancel the withdrawal, and finally demands to have placed in his hands the whole of the District Engineer's journals and accounts. Mr. Lyon is not entitled to this either in the public interest or on his own behalf. It is remarked that the charge is not brought forward in the public interest, but for the gratification of a malicious feeling of revenge for fancied ill-treatment. All the accounts, &c., passed through the office of Mr. Lyon as Range Officer, and if improper charges were made, Mr. Lyon had an opportunity of bringing them forward at the time.

2. Mr. Lyon's conduct, irrespective of the charge made by him, has been extremely insubordinate; he has neglected the payment of the starving people entrusted to his charge, and has shown himself quite unfitted for the position which he holds in the department.

3. The Government observe that this is the third occasion on which Mr. Lyon has disgraced himself by discreditable conduct of various kinds, justly meriting dismissal from the service. His Grace in Council, however, consents to give Mr. Lyon one more chance, and will therefore, on this occasion, simply mark his displeasure by ordering that he be reduced to the bottom of the list of Assistant Engineers, 1st Grade, and placed below Mr. J. Grimes. He will also be removed from the Nellore District and posted to Cuddapah, where the District Engineer will employ him as Range Officer of the Cuddapah Division, reporting quarterly on Mr. Lyon's conduct and work.

4. With respect to the accusation against the District Engineer, it will no doubt be a satisfaction to Mr. O'Shaughnessy that the accounts should be placed

before the Examiner to report on, it being borne in mind that the accusation is not of erroneous accounts, but of "wilful dishonesty." This will accordingly be done; and the Examiner will, after examination, report the result for the information of Government.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers:—

No. 7.	From Mr. F. Brooks,	dated 20th August 1877.	
No. 7-A.	From District Engr., Nellore,	" 9th October "	
No. 7-B.	From Mr. F. Brooks,	" 19th " "	
No. 7-C.	From District Engr., Nellore,	" 26th " "	No. 2,676.
No. 7-D.	From Mr. F. Brooks,	" 31st " "	" 36.
No. 7-E.	From District Engr., Nellore,	" 1st November "	" 2,758.
No. 7-F.	From " " "	" 2nd " "	" 2,779.
No. 7-G.	From " " "	" 5th " "	
No. 7-H.	Telegram from Mr. F. Brooks,	" 5th " "	
No. 7-I.	Telegram " "	" 7th " "	
No. 7-J.	From " "	" 8th " "	
No. 7-K.	Telegram " "	" 8th " "	
No. 7-L.	From " "	" 20th " "	

No. 8. ORDER THEREON, 1st December 1877, No. 1,902 W.

THE papers before Government show that for some time past Mr. Brooks's conduct has been marked by a promptitude to take offence at, and a determination to dispute the order of, the officer under whom he is working. The charges that he has brought against the District Engineer of harsh and unfair treatment were fully and satisfactorily answered by the District Engineer. In a letter of the 6th October of a most insolent and insubordinate nature he charges the District Engineer (on information obtained from another Executive Officer of the district, who however was unable to give particulars,) with drawing travelling allowance to which, by the rules, he was not entitled. Mr. Brooks afterwards in a letter addressed to the District Engineer withdraws the charge, and subsequently in a telegram and letter addressed to the Chief Engineer cancelled the withdrawal. Subsequently he finally withdrew the charges preferred in a letter the tone of which however was carping and complaining.

2. His Grace the Governor in Council cannot overlook conduct so utterly subversive of discipline, and resolves to replace the services of Mr. Brooks at the disposal of the Government of India.

3. Mr. Brooks by his insubordinate conduct has caused serious loss and prejudice to the public service at a time of pressure, and having rendered it impossible for the duties of the district to be carried on owing to his behaviour he was suspended from the performance of his duties under orders of the Chief Engineer, dated 13th October, which reached him on the 19th. The Government however are pleased to cancel the suspension as from the 31st October, having regard to the fact that Mr. Brooks belongs to a different Presidency and that his services were only borrowed for the occasion.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 9. From Major J. W. HINDLE, S.C., District Engineer, Kurnool, to the Chief Engineer, Public Works Department, dated Kurnool, 19th November 1877, No. 9912,502.

I HAVE the honor to forward herewith the original reports from both Mr. Scotland* and Mr. Johnston† on the character, conduct, and qualifications of Mr. Clark for your information.

* No. 15 C of 16th November 1877.
† No. 792 of 8th „ „

2. On Mr. Clark's joining at Kurnool I had great misgivings about him, and when I sent him to Cumbum I wrote demi-officially to Mr. Scotland to be careful and not trust him with money. I had heard of his being in almost a constant state of intoxication though I had not seen it and I was anxious about him.

3. He has not done a stroke of work since he came to the district and has insulted everybody he has come across.

4. I have no further use for his services, and beg you will be so kind as to remove him at once. I have forwarded you Mr. Scotland's demi-official‡ on Mr. Clark as well as his official report, as I consider that such conduct should have been taken notice of although not in office hours. I send it to show you the true character of the man. May I request a very early reply and full instructions, as I should like to get the man out of the district.

‡ Original, dated 16th November 1877.

5. In the event of his applying for an advance, I am pretty sure he will ask for one, am I to authorize it or not ?

From J. P. SCOTLAND, Esq., Assistant Engineer on Deputation, to the District Engineer, Kurnool, dated Nundial, 16th November 1877, No. 15 C.

WITH reference to your No. 282/2,410, dated 13th November, calling on me for a report on Mr. Assistant Engineer Clark's conduct and qualifications, I have the honor to submit the following report. When I took charge of the Cumbum range on the 10th of last month, I found that Mr. Clark was one of the officers lately sent by you to the range for employment on Famine Relief-works, and, as the sub-division of Markapur had no officer in charge, I ordered Mr. Clark to proceed to Markapur and take charge of the sub-division. The famine coolies at this time were not made over to us by the Revenue Department. I supplied Mr. Clark with full written instructions how to set about the various kinds of works he would have to perform ; copies of these instructions were forwarded to you at the time, in obedience to your orders that when any instructions were issued to Mr. Clark, copies of the same should be sent you for information. I proceeded myself to Markapur a day or two after Mr. Clark joined his sub-division. On my arrival he informed me that he could not carry on the duties of a Sub-divisional Officer, as he was perfectly unacquainted with them. He said he was an Architect by profession, and was as ignorant as a babe of engineering. Road-making and ordinary culvert and bridge building was a science unknown to him, while as to construction of tanks and the necessary masonry works connected with them, was a mystery which he would not attempt to unfathom. I was rather surprised to hear all this, and, as I had no other man available to put in charge of the sub-division, I was compelled to allow him to remain on in charge till such time as some men were transferred to our department from the Revenue. On the 23rd October I requested Mr. Clark to take over charge of the famine coolies from the Revenue Department at 10 A.M. on the 24th and to set them about their work. I sent him a cheque for Rupees 2,500 on Markapur Treasury on the same date to pay the coolies with, informing him at the time that he must pay them their wages pending further instructions on Thursday the 25th, and again on Saturday the 26th. The coolies, I regret to say, were not taken over by him up to the date of my leaving Cumbum, (Monday the 29th,) nor was the cheque for Rupees 2,500 cashed. Beyond proceeding to Vemalkottah on the 25th instant and seeing Mr. Fawcett, the Special Assistant Collector, and requesting him to inform him as to how he should act, he did nothing. I wrote urgent letters to him from Cumbum, after my return from Markapur, requesting him to inform me what steps he had taken to carry out my orders regarding the transfer of coolies ; also to report to my office the date on which he had taken over charge of them from Mr. Fawcett. To none of these letters did I receive any reply. On the 25th October I received a childish letter from him, in which he states that, if he got no local assistance and definite instructions regarding work given him, he despaired

of ever giving satisfaction. On Monday the 29th October I left Cumbum for Kurnool, from that date I ceased to be Range Officer, and I cannot inform you whether Mr. Clark took charge of the coolies in the Markapur taluq after that date or not. In conclusion I beg to remark that Mr. Clark is perfectly useless as an Engineer. He is incapable of comprehending even the elements of engineering, and is a dangerous man even to trust as Sub-overseer. Indeed a Sub-overseer could be more relied upon for work than Mr. Clark. In such times as these, when the lives of thousands of coolies depend upon the actions of the Sub-divisional Officers, it is necessary that the men holding these posts should be possessed with common sense and habits of punctuality, temperance and self reliance. None of these essential qualities does Mr. Clark possess.

I regret very much to have to bring this officer's conduct to your notice; but in justice to myself as late Range Officer of Cumbum and in defence of my actions while in charge, I am compelled to do so.

From J. C. JOHNSTON, Esq., Divisional Officer, Cumbum, to the District Engineer, Kurnool, dated Markapur, 8th November 1877, No. 792.

WITH reference to your demi-official No. 320/2,303, dated 3rd November 1877, I have the honor to report as follows with regard to Mr. B. Clark.

2. Mr. Clark reported to me that he had made arrangements to take over charge of the Markapur taluq on the 28th October 1877, so it was with some surprise I heard from him on the 2nd* that he was waiting at Markapur for Mr. Goodsir to arrive to take over charge. I immediately wrote to him asking whether he had taken over charge. His reply dated 4th stated he had not done so. This reply I received after my arrival in Markapur. I have ordered Mr. Clark to put down his explanation in writing. As far as I understood him at a personal interview it appears that on receipt of Mr. Scotland's docket (copy enclosed) ordering him to give over charge of the Markapur taluq to Mr. Goodsir, he at once left Gabbore, where he was awaiting the recovery of the Road Superintendent to take over charge, marched to Markapur and stopped there (from 1st to 6th November 1877). He says that Mr. Scotland's docket distinctly ordered him to await Mr. Goodsir's arrival at Markapur, and no reasoning to the contrary has any effect on him. I arrived here on Tuesday the 6th, and immediately started Mr. Clark off to Gabbore, myself following the next morning. Although I was suffering from a severe attack of fever, I made Mr. Clark assume charge of the Famine Relief-works, wrote him out "explicit instructions," made arrangements to have the weekly reports submitted punctually, went out along the road, inspected the gangs, and showed Mr. Clark how the numbers were to be checked. I left Mr. Clark in the afternoon apparently well satisfied that he had at last received "definite instructions."

* Copy enclosed.

3. Orders have been sent to Mr. Clowsley to take over charge *at once* from Mr. Clark. Mr. Clowsley is near Dorenal and should be able to reach Davarazoogatoo tomorrow. Overseer V. Anunthachary has been ordered to proceed at once to take over charge of the cash till the arrival of Mr. Clowsley.

4. Though Mr. Clowsley's conduct has been under reference I have no option but to order him to take over charge from Mr. Clark. I have no doubt whatever but that Mr. Clowsley will give every satisfaction Mr. Goodsir's love of idleness is well-known, and this failing coupled with dysentery, from which he is suffering, does not render him a fit man to be in charge of the taluq. His tent also supplied by Government is so torn that it is useless.

5. I beg to state that I do not remember your having cautioned me against employing Mr. Clark on any responsible work. There is no letter in the file with any such caution.

6. Mr. Clark was ordered to Cumbum range and Mr. Scotland as Range Officer placed him in charge of Markapur taluq and gave him an imprest account of Rupees 2,500 before leaving Cumbum for Kurnool. Mr. Scotland afterwards ordered Mr. Goodsir to take charge of Markapur while Mr. Clark was to go down to Komarole, and he recommended me strongly to carry out this arrangement, because he thought Mr. Clark would forget to pay the coolies. As Mr. Goodsir, however, was sick and could not be expected to camp out in that state without a decent covering over him, he was ordered to remain in Cumbum under my more immediate control to look after nearly twenty miles of road and more than 5,000 coolies till further orders. I blame Mr. Clark for not having taken over charge sooner; but think that notwithstanding his extraordinary bad memory, with Mr. Clowsley and the Markapur Overseer to help and guide him, he would be able to manage the very few coolies in Markapur. I expect that in a month there will be no coolies working for the Department Public Works in the Markapur taluq.

7. From what I know of Mr. Clark personally I must say that he is too fond of spirits. I will carefully watch Mr. Clark and will report him at once should he fail to work satisfactorily. Up to the present he has done nothing but to wait for explicit orders. He has been ordered to report himself immediately to Mr. Ainly at Kristemsettipullay, and, as I am going down there this week, I shall be able to see how he works.

From the Divisional Officer, Cumbum, to B. CLARK, Esq., Assistant Engineer, dated 27th October 1877, No. 729.

HAS the honor to request that he will, on being relieved by Mr. Goodsir, Special Assistant Engineer at Markapur, return to Cumbum and report himself to the undersigned for orders.

(Signed) J. P. SCOTLAND, C.E.,
Assistant Engineer, Cumbum.

From B. CLARK, Esq., Assistant Engineer, to C. J. JOHNSTON, Esq., Divisional Officer, dated Markapur, 2nd November 1877.

I AM waiting the arrival of Mr. Goodsir, kindly let me know if I cannot come on to Cumbum and make over the cheque for Rupees 2,500 to yourself; the two books and strong box can be left in charge of the Overseer here; anxiously awaiting your reply and begging to be informed where I can give orders to pitch my tent.

No. 11. ORDER THEREON, 1st December 1877, No. 1,903 W.

ORDERED that the following telegram be despatched :—

"To the District Engineer, Kurnool.

"Direct Clark report himself Calcutta. His services replaced at India's disposal. Make no advances whatever."

And that the following letter be sent to the Government of India.

(Signed) E. A. FOORD, Colonel R.E.,
Secretary to Government, P.W.D.

No. 12. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 1st December 1877, No. 1,904 W.

SIR,—I am directed to inform you that His Grace the Governor in Council has resolved to replace at the disposal of the Government of India the services of Mr. Assistant Engineer Clark, of the Bengal Provincial Establishment, temporarily posted to this Presidency for employment on Famine Relief-works.

2. Mr. Clark, as will be seen from the correspondence which I am herewith to forward, has shown himself entirely unfitted for the responsible duty for which he was intended.

3. I am to say that the services of another officer in the stead of Mr. Clark will not be required.

General.

Establishment.

Read the following paper :—

No. 13. Memorandum from the Chief Engineer for Irrigation, dated 29th October 1877, No. 20 E. W.

No. 14. ORDER THEREON, 3rd December 1877, No. 1,913 W.

THE Chief Engineer in the above memorandum brings to the notice of Government the very great delay that has occurred in carrying out the construction of a training wall to guide the waters of the Chintagoonta tank to a new railway bridge. This work was sanctioned in G.O. of the 3rd February 1877, No. 370, and was then pronounced to be a necessary work to be planned and carried out by the District Engineer, Cuddapah. The District Engineer was afterwards informed in reply to a reference made by him on the 7th July that the work was still considered necessary,

and he was again ordered to carry out the instructions already conveyed to him, and on the 17th of the same month he was ordered to commence the work in anticipation of sanction. Colonel Moberly appears to have contented himself with sending instructions to the Range Officer without seeing that either he or his successor did anything towards carrying out the work; and the present Range Officer, who has however been but a short time in the department, in like manner delegated the work to the Overseer who was unable to get it done. His Grace the Governor in Council concurs with the Chief Engineer for Irrigation that the District Engineer is primarily responsible, that he has neglected his duty in this case, and directs Colonel Moberly to take immediate steps for getting this very necessary work completed without further delay, and that he will give his personal attention to it, reporting progress once a fortnight.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following papers :—

No. 15. From the District Engineer, Cuddapah, dated 13th Nov. 1877, No. 2,011.

No. 16. From the Acting District Engineer, Coimbatore, dated 24th November 1877, No. 148 C.I.

No. 17. ORDER THEREON, 3rd December 1877, No. 1,914 W.

IN anticipation of the approval of the Government of India, His Excellency in Council resolves to regulate the maximum amount of cash imprests in the famine districts by the amount of pay drawn for three days by the coolies employed upon the work in connection with which the imprest is required.

2. Executive Officers will understand clearly that a wise discretion must be used, and that the maximum amount must not be taken as the normal standard for imprests.

(Signed.) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D

No. 18. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 3rd December 1877, No. 1,915 W.

SIR,—In the Resolution of the Government of India contained in Public Works Circular No. 54 of the 3rd October, the Governor-General in Council directed that, in future, imprests should be limited to a maximum of Rupees 1,000 in each case.

2. This ruling has been found to conflict with the orders which His Grace in Council has issued directing that famine coolies shall be paid not less often than twice a week.

3. These frequent, yet necessary, payments cannot be made by Overseers at a distance from Treasuries, if the maximum amount of each imprest is limited to the sum before mentioned.

4. With a view therefore of enabling the subordinates on charge of relief-works to make regular payments, His Grace the Governor in Council has directed that in famine districts the maximum amount of cash imprests shall be regulated by the amount of pay drawn for three days for the coolies employed upon the work in connection with which the imprest is required.

5. In allowing this relaxation of the Government of India rules, His Grace in Council has given Executive Officers clearly to understand that they must exercise a wise discretion, and must not take the maximum amount of imprests under this rule as the normal standard.

6. I am to request that the Viceroy in Council will be pleased to confirm this relaxation of the rules which the Madras Government, in anticipation of the approval of the Government of India, have directed to have effect.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 19. Proceedings of the Government of India in the Public Works Department, (Civil Works—Telegraph) dated Simla, 7th November 1877, Nos. 404—18 T.

COMPLAINTS having been made to the Government of India of the circulation to unauthorised persons of the news messages supplied to Government under agreement with Reuter's Telegraph Company, the undersigned is directed to draw attention to the subjoined clause in the agreement with Reuter's Company, and to request that the conditions may be strictly observed for the future :—

" The Government officers to whom copies of telegrams of the said Company may be transmitted under agreement, shall not publish the same, either by circulating them, or posting them up in any place of public resort, or otherwise howsoever."

(Signed) G. T. SKIPWITH, Captain, R.E.,
Asstt. Secy. to the Govt. of India.

No. 20. ORDER THEREON, 3rd December 1877, No. 1,916 W.

COMMUNICATED to all Departments of the Secretariat.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 21 From Captain J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 5th October 1877, No. 403.

WITH reference to Public Works G.O., No. 139 W, dated 15th August 1877, I have the honor to submit two plans and three detailed estimates for repairing the Lawrence Asylum at Ootacamund.

2. The three estimates amount to Rupees 10,330. Out of these one estimate, amounting to Rupees 2,850, is for restoring the gutters of the three corridors of the male branch which now leak a good deal. This work was not included in my former approximate estimate. The other two estimates, amounting to Rupees 7,480, are for the works approximately estimated to cost Rupees 6,000.

3. I beg the favor of the return of the plans.

No. 21-A. From the same Officer, dated Ootacamund, 24th November 1877, No. 470.

WITH reference to your memorandum No. 3,495, dated the 25th October last, desiring me to refer the estimates (accompaniments to my letter No. 403 of the

5th of the same month) for the remarks of the Lawrence Asylum Committee, I have the honor to submit the copies of letters as per margin, from which you will observe that the Committee consider that the white-washing and minor repairs may be deferred for the present until funds are available for the purpose.

Letter No. 1,120, from the Rev. Deane.
Do. " 1,179, " " "
Do. " 731, " District Engineer.

No. 22. ORDER THEREON, 3rd December 1877, No. 1,919 W.

FUNDS will be provided for the repairs in the outgoing Budget. But any work of repair that may be immediately necessary for preservation of the building from injury should not be postponed.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 23. From Major J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 21st November 1877, No. 467.

I HAVE the honor to inform you that, on the morning of the 6th instant, an enormous mass of earth fell in at the deepest part of the Craigmore cutting of the road towards Coonoor to the east of, and at the entrance to, the town of Ootacamund, entirely blocking the cutting up and closing the road to traffic for three days.

2. With the permission of His Grace the Governor seventy-two convicts were employed on the cutting for three and a half days to open (with the help of coolies and carts) a way just sufficient for a cart to pass. The value of these convict's labor would probably amount to under 100 Rupees. I am continuing the clearing of the earth, as the interference to traffic is great.

3. I enclose for sanction and provision of funds an estimate, amounting to Rupees 2,118, for removing the earth and building a breast wall of dry stone to prevent further obstruction.

No. 24. ORDER THEREON, 3rd December 1877, No. 1,920 W.

HIS GRACE the Governor in Council sanctions the estimate of Rupees 2,118 for removing a land slip in the Craigmore cutting of the road between Ootacamund and Coonoor. The District Engineer is authorized to go on with the work confining himself to what is absolutely necessary for the safe restoration of the communication, postponing all work that can be deferred until funds are regularly provided.

2. This sanction has been registered as Provincial No. 216 B. of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 25. From Captain L. CONWAY-GORDON, R.E., Examiner of Public Works Accounts, to the Secretary to Government, Public Works Department, General Branch, dated Fort St. George, 29th November 1877, No. 160 W.

I HAVE the honor to forward, for submission to the India Office, a duplicate of the last pay certificate for Assistant Engineer Mr. C. H. T. Norfor, who embarked for

England from Bombay on the P. and O. steamer *Bangalore* on the 17th August 1877, on sick leave for nine months granted to him in the *Fort St. George Gazette* of the 13th November 1877, Part I, page 761.

2. The original of the last pay certificate has been forwarded to Messrs. Parry and Co. at Madras for transmission to Mr. Norfor in England.

3. Mr. Norfor made over charge of his duties in the Bellary District on the forenoon of the 15th August 1877. He is therefore entitled to subsidiary leave under Section 10, Supplement F of the Civil Leave Code, for the 15th and 16th, and to leave on medical certificate from the 17th August 1877, the date of his embarkation from Bombay to England. The necessary notifications should be published in the *Fort St. George Gazette*.

4. At the time of Mr. Norfor's embarkation the undermentioned pay and allowances were due to him—

	RS.	A.	P.
1. Travelling allowances for July 1877, audited	116	0	0
2. No claim for the travelling allowances for August has been made by that officer.			
3. Salary for 1st to 14th August 1877, at Rupees 350 per mensem	158	1	0
4. Subsidiary leave pay at privilege leave rates for the 15th and 16th August 1877, at Rs. 350 per mensem	22	9	3
Total ...	296	10	3
Deduct the amount claimed in the Hospetta divisional bills and audited by this office	285	5	8
Net amount due ..	11	4	7

will be paid to his Agents at Madras on receipt of a requisition from Mr. Norfor for the same, as no claim for India pay and allowances will be paid at the India Office under the ruling quoted in the despatch from the Secretary of State for India, printed with G.O., No. 564, dated 20th February 187 7.

No. 26. ORDER THEREON, 3rd December 1877, No. 1,921 W.

ORDERED to be forwarded to the Home Government.

(Signed) F. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 27. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Buildings and Roads, dated Fort St. George, 26th November 1877, No. 4,927.

WITH reference to paragraph 23 of G.O. No. 988 W, dated 12th October 1877, I have the honor to submit, for the sanction of Government, an estimate amounting to Rupees 2,140 for the conservancy of the river Cooum from 1st April 1877 to 31st March 1878, and to request that funds may be allotted from any source at the disposal of Government to enable the Examiner of Public Works Accounts to remove the work from the List of Objectionable Items.

One Estimate.

2. The conservancy of the Cooum is in progress under G.O. No. 43, dated 7th January 1876.

No. 27-A. From the same Officer, dated Fort St George, 30th November 1877, No. 5,029.

WITH reference to your memorandum No. 4,153, dated 28th November 1877, I have the honor to explain that in my manuscript Budget Part III, Provincial, for 1877-78, a sum of Rupees 1,000 was applied for under the head Repairs, Miscellaneous Public Improvement; but as this amount was not sanctioned in the printed Budget, I beg that you will be good enough to allot the sum of Rupees 2,140 from any source at the disposal of Government, as the work is classed under the head Objectionable Items in the accounts of the Presidency District.

2. I also request that a sum of Rupees 2,000 may be sanctioned in future budgets under the head Repairs, Miscellaneous Public Improvement, Provincial, for the conservancy of the Cooum.

No. 28. ORDER THEREON, 3rd December 1877, No. 1,922 W.

THE estimate received with the first of the above letters has been returned to the District Engineer as not requiring the sanction of Government. There being no money at the disposal of Government for appropriation to the work, the District Engineer must suggest transfers from existing grants.

2. Under the circumstances represented in District Engineer's letter No. 5,029, dated 30th November 1877, Rupees 2,000 will be provided in future Provincial Fund Budgets under the head of Repairs, Miscellaneous Public Improvement, for the conservancy of the Cooum.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Military Works.

Read the following paper :—

No. 29. From Colonel C. POLLARD, R.E., Deputy Secretary to the Government of India, Public Works Department, (Military Works,) to the Secretary to the Government of Madras, Public Works Department, dated Simla, 8th November 1877, No. 1,181—87 M. W.

IN forwarding for information the accompanying copy of a memorandum by the Army Sanitary Commission on the Medical and Sanitary Report of the Madras Native Army for 1875, I am directed to invite particular attention to the remarks of the Commission in regard to the insanitary condition of the huts of the Native soldiers in India.

COPY forwarded to the Military Department for information, with reference to its No. 167 S (Sanitary), dated the 5th ultimo.

(Signed) C. POLLARD, Colonel, R.E.,
Deputy Secy. to the Govt. of India.

From the Secretary of State for India, to the Government of India, dated 23rd August 1877, No. 128.

I FORWARD herewith a copy of a memorandum by the Army Sanitary Commission on the Medical and Sanitary Report of the Madras Native Army for 1875. This paper contains many valuable observations and suggestions, especially relating to the drainage of the sanitary native huts and lines.

Dated 22nd May 1877.

Endorsement by the Military Department, dated 5th October 1877, No. 167 S.

COPY of the above and of the enclosure forwarded to the Public Works Department for information, with reference to paragraph 9.

Memorandum by the Army Sanitary Commission on the Medical and Sanitary Report of the Native Army of Madras for 1875.

THIS report consists of an instructive digest of medical and sanitary facts contained in a communication from Surgeon-General E. G. Balfour to the Madras Government, followed by reports on the medical and sanitary condition of each division, station and regiment of the Madras Native Army for the year 1875 Much of the detail is, as usual, of a purely departmental character, not coming within the sphere of the Army Sanitary Commission, but not many reports on the same subject hitherto received from India have contained so much information on the sanitary state of the Native army, or shown a more enlightened appreciation of the real importance of the sanitary element to the efficiency of Native troops.

It is proposed in the remarks which follow to call attention to the more important points in the report bearing on this subject, and to the practical principles which may be deduced from them.

1. The average strength of the Native Army of Madras for the year 1875 was—

Total strength	30,256
Absent	2,465
Present	27,791

The number of "absent" amounted to 8·14 per cent., the largest proportion of any of the five years given in the report, and is probably explained by "the progressive facilities for sending away sick men to a distance for change of air." However desirable this measure may be, its probable effect in lowering the death and raising the apparent inefficiency rates of the Native army is not to be overlooked.

2. The next abstract gives the rates per 1,000 from inefficiency causes for 1875, contrasted with the same data for three preceding years :—

Years.	Ratio per 1,000.				
	Admissions.	Daily sick.	Total deaths.	Invalided for	
				Discharge.	Sick leave.
1872	1,011·5	31·1	12·2	17·2	22·2
1873	874·6	29·1	9·2	19·4	18·2
1874	812·0	30·6	9·9	29·5	21·2
1875	798·2	30·2	11·7	30·1	24·0

The following were the total numbers of the chief inefficiency causes :—

—	Admissions.	Deaths.
Eruptive fevers	94	...
Continued ditto	822	10
Malarial ditto	7,804	50
Rheumatic diseases... ...	1,302	3
Diseases of eye	1,015	...
Disease of lungs	670	50
Diarrhœa	855	21
Dysentery	787	14
Skin diseases	2,320	...

The mortality relative to strength from these diseases for the last three years has been :—

—	Ratios per 1,000.		
	1873.	1874.	1875.
Eruptive	·03	·07	...
Continued ditto ...	·2	·2	·3
Malarial ditto ...	·8	1·4	1·6
Rheumatic diseases...	·03	·03	·09
Lung diseases ...	·8	1·0	1·6
Diarrhœa	·3	·4	·6
Dysentery	·4	·6	·4

With the single exception of the death-rate from dysentery all the other death causes showed higher rates in 1875 than in the two preceding years.

3. The following were the actual numbers invalided in the year for which the causes are assigned ; but the total invalids were 729 for change, and 911 for discharge :—

—	For discharge.	For change.	Total loss.
Eruptive fevers... ...	1	1	2
Continued ditto. ...	1	11	12
Malarial ditto	21	189	210
Rheumatic diseases ...	67	68	135
Eye diseases	48	7	55
Lung diseases	30	63	93
Diarrhœa	...	41	41
Dysentery	2	23	25
Skin diseases	11	8	19
	181	411	592

It is impossible to peruse these statistical data without seeing how large an influence local disease causes, productive of malaria and dampness, together with climatic agencies, such as rainfall and variable temperature, exert on the efficiency of the Native Army in Madras and its outlaying stations, and it is not surprising to find how large a space of the sanitary notes on particular stations is devoted to them.

4. The drainage defects are due to three causes :—

First.—The position of lines in localities which scarcely admit of efficient drainage on account of lowness of ground, water logged sub-soil consequent on this topographical defect, and damp rising in the floors and walls of the men's huts.

Second.—Want of sub-soil drainage where the ground might be drained, leading to similar results.

Third.—Defective attempts at surface drainage by cuttings in the ground, by which not only surface water but the sewage of huts is conveyed directly into the sub-soil, thus increasing the evils which surface work of this kind is intended to remedy.

Each class of defects will come up in its place in the following brief abstract of sanitary notes on stations, to which attention may be called, beginning with the drainage.

(*a*). *Madras* (*Vepery*).—Lines low, and drainage defective. Huts not good.

(*b*). "*Cuttack* continues a hot-bed of malaria. The drainage of the lines could hardly possibly be worse. The ground itself almost a dead level; the drains simply shallow open trenches, into which flows all liquid filth from the huts, as well as surface drainage generally percolating into the sub-soil, and during the greater part of the year, when there is no rainfall, to flush the channels, giving rise to most offensive odours." The reporter understood that the drains were about to be faced with stone. The site appears to be below the level of river floods, and the ground marshy as a natural result. It is doubtful whether any real drainage improve-

ments are practicable in such a position, except at too great an outlay. The 41st Regiment, Native Infantry, at this station, out of an average strength of 633·5, had 1,017 admissions to hospital from malarial fever. It lost 56 men by invaliding and sick leave, which may account for its low death-rate, 5·6 per 1,000.

(c). *Sambalpore.*—"Drains are built in the V pattern, of stones which, not being set in chunam, permit earth contamination." Beyond the lines the channels are merely cut out of the earth, and emit at times "a most offensive odour." The insalubrity of Sambalpore had been less marked during the year. The solitary cell is in a "most insanitary" state.

(d.) *Berhampore.*—"The lines at Berhampore continue in *statu quo*, and the occurrence of 56 cases of cholera, with 19 deaths among them, in the right wing of the 2nd Regiment, Native Infantry, is a lesson which ought not to be forgotten . . . . The drainage and the sewerage of the lines are very imperfect. This condition has frequently been brought to notice." At this station the death-rate was 21 per 1,000.

(e). *Vizianagram.*—"Drainage of lines defective on account of insufficient slope of main drain."

(f). *Palamcottah.*—The family latrines are situated just in front, or a little on one side, of the hut doors, and infect the air inside the hut. The drains are mere cuts in the ground, with little or no fall, and the house refuse percolates into the sub-soil.

5. There is an interesting report on the Mysore Division by Dr. George Smith, Deputy Surgeon-General, which contains much interesting information about troops and stations in this region of India. Amongst other things he has enunciated the following propositions :—

(1.) "To the sanitarian cholera means dirt" (although to the ætiologist it may mean more), a motto which might very well be written up everywhere in India ; "and truly," he says, "there is no lack of this in the Mysore Province and in the Ceded Districts."

(2). "The unit of sanitary administration in civil life is the house, in military life the sepoy's hut, and, until these houses and huts are placed in a sanitary condition, the mere sanitation of surroundings will have but little influence upon the mortality and sickness ratios." The truth of this proposition may be admitted if it is made to include certain things without which no house or hut can be healthy, viz., dry healthy site and plan, drainage, and good water. On the other hand, as Dr. Smith argues, much benefit cannot be expected from such conditions if the house or hut itself is of a character inconsistent with healthy occupation.

(3). "It is a matter of some difficulty and a constant labour to keep the old lines and huts in a satisfactory state of sanitation. The huts are badly constructed and of mud. The streets and lines are frequently much too narrow, and the total absence of artificial drainage leads necessarily to the extreme sulliage of the soil, and to the inevitable pollution of the water of neighbouring wells."

The remedies Dr. Smith suggests are the adoption of some uniform plan for the latrine and lavatory of the sepoy's hut, regimental latrines for both sexes, experiments on the dry-ash and dry-earth systems, and efficient artificial drainage of the lines. As regards the stations :—

(a). *Bangalore Head-quarters, Sappers and Miners.*—Complaint is made of foul odours from the municipal drains running along the southern front of the lines, and of other sanitary defects in the vicinity.

(b). *Bangalore 23rd Light Infantry.*—Drains throughout the lines are objectionable. They are mere open ditches cut or worn out of the soil, into which there is a constant flow of wash from the huts, and consequent percolation. The domestic privies are a "standing nuisance." With reference to these lines, Dr. George Smith states that the large "box drains" in the vicinity are "kept clean with great difficulty," and that "the lines, as a whole, exhibit all those defects which sanitary science condemns," only to be overcome by reconstruction. The medical officer reports strongly against the existing state of the conservancy in the neighbourhood of the lines. Forty per cent. of the admissions to hospital from this regiment were due to fever.

(c). Regarding sickness in the *36th Regiment, Native Infantry at Bangalore*, the medical officer reports that "ague, as usual, heads the list," but that this disease will doubtless diminish when the whole corps is properly hutted.

6. While calling attention to these defects, the Commission desires, at the same time, to cite Dr. Smith's testimony to the fact "that the great and pressing subject of sanitation is securing the attentive consideration of all authorities, whether military, civil, or medical, and that fair, though not always rapid, progress is being made in reducing the principles of the science to practice." The chief difficulty is in dealing with the habits and prejudices of the Native troops, which are often opposed to sanitary procedure.

(a). *Mercara.*—The Surgeon of the 28th Regiment, Native Infantry, says that "the sanitation of the lines will never be fairly good until good brick and chunam drains are put up, and the basin beneath the lines drained." He makes the following remarkable statement :—"The

principal causes of disease have been bad or insufficient food, cold" (the station is 4,500 feet above sea level), "thin and insufficient clothing when not in uniform, malaria." This must be left as it is given for inquiry and remedy, if such be needed.

(*b*). *Bellary.*—In the lines of the 21st Regiment, Native Infantry, at this station, the hut sewage is conveyed by drain pipes into chatties placed outside, which are emptied morning and evening by the municipality. This was done to prevent the sewage passing into the sub-soil. It exhibits house drainage in its most elementary form, and is better than fouling the ground between the lines.

(*c*). *Secunderabad.*—The following account of the drainage of Native lines is given by Deputy Surgeon-General Burn:—"Surface drainage in all the lines is defective, only shallow trenches along the sides of the streets exist, which soon get silted up, more especially in the monsoon." Some lines are, it appears, built across the natural drainage fall.

(*d*). Of one set of lines, those of the 1st *Regiment, Light Cavalry*, the drainage and other sanitary conditions are reported as eminently satisfactory, "and to these conditions was largely due the high state of health the regiment enjoyed." The average strength was 202, out of which there were 111 admissions during the year; the daily sick in hospital averaged only 3, there were 2 deaths, 6 men were pensioned, and 2 went on sick leave.

In all the other Native lines at Secunderabad the drainage appears to be done mainly by surface cuts, and there is lodgment of water and dam during the rains.

(*e*). *Kamptee.*—The medical officer of the 2nd Regiment, Light Cavalry. says that his belief is "that the admissions from malarious causes would be diminished one-half were a thorough system of sub-soil drainage to be established. The sub-soil is very retentive of moisture, and the houses are very damp in the rains." The general sanitary state of Kamptee has nevertheless undergone improvement, for Surgeon W. E Johnson, in charge of the 35th Regiment, Native Infantry, says: "Some years ago the station of Kamptee had the unenviable reputation of being unhealthy, but happily for the residents it is now one of the healthiest stations in India, and this change is no doubt due to the improved sanitary arrangements."

(*f*). *Seetabuldee.*—The Deputy Surgeon-General says that "the lines are situated in a swamp, and have been condemned in every report forwarded, . . and although everything has been done that can be done by the regimental authorities to improve the drainage, it still remains very faulty; . . . unless the present site of the lines is abandoned and a less objectionable one selected, it is not easy to suggest a remedy for the state of matters as reported." He expresses his astonishment "that the rising piece of ground on the opposite side of the road from the lines should have been overlooked by the Committee when selecting a site for lines." He says: "The site adverted to is in everyway eligible, as regards soil, elevation, and natural configuration, for the most perfect drainage."

One-third of the entire number of admissions at this station was due to ague.

(*g*). *Hoshungabad, 22nd Regiment, Native Infantry.*—During the cold season the chief diseases are intermittent fevers, of which the predisposing causes are stated to be—"(1) bad housing; (2) want of proper warm clothing; (3) insufficient and non-nutritive food in many instances; and the fact that the men and their families generally sleep on thin mats spread on the cold ground instead of on charpoys. . . As really no system of drainage beyond merely the shallow drains on either side of the streets is carried out, and bearing in mind the retentive nature of the sub-soil (black cotton), it is not to be wondered at that the walls and floors are always more or lesss damp during the rains."

A test illustration of the effects of this ground damp is given regarding the officers' quarters at this station. The main surface water drain of part of the lines runs through the officers' compounds. During the rains this drain overflowed and saturated the ground, and several officers were seized with fever.

(*h*) At *Saugor* the position of lines occupied by the 5th Regiment, Native Infantry, is described as "low, and in the rains little better than a swamp, and was formerly the site of a burning and burial ground. The huts are low, miserable little buildings."

(*i*) A matter of experience may be cited from the *Nagode* report as follows:—"The drainage of the lines is now very satisfactory; the old V-shaped drains, which it was found very difficult to keep clean, have been replaced by open saucer-shaped drains of masonry . . . These drains are swept daily and flushed with water twice a week."

(*k*) At *Dorundah*, in Bengal, the sewage from the huts is passed into surface cuts and so into the sub-soil; the medical officer very properly says "this must be a patent cause of disease amongst the men." This station is 2,100 feet above the sea level, which to some extent neutralizes this defect, but does not justify it.

7. *Water-supply*—There is no sufficient information as to the condition of the water used by Native troops. In one or two cases complaints are made, in others it is evident that wells have been improved, but the general impression produced by the paragraphs relating to this important subject is that there is little now to complain of.

8. *Conservancy.*—There are a few complaints of local nuisances, but as a rule the lines appear to be kept clean. The main difficulty arises in the latrine arrangements for families, which appear to be of a very unwholesome character, chiefly on account of the number of inmates crowded into the small hut which constitutes the Native soldiers' barrack accommodation. From suggestions made in the reports this whole subject appears to require consideration, with the view of determining whether a remedy for the present state of matters might not be found in providing common latrine accommodation in suitable places for the lines, or in the introduction of better domestic contrivances, involving speedy removal of all excrementitious matters beyond the lines.

9. It is evident from the general tenor of the reports, as well as from the statistical data contained in them, that future progress in the sanitary state of Native troops in Madras Presidency lies in the direction of improved position of lines, better huts, and efficient station drainage; the chief points in which have been abstracted in the preceding paragraphs.

The present position of the whole question, as regards the Native Army in Madras, cannot be better described than in the following extract from Surgeon-General E. G. Balfour's report already referred to:—

"Of late years the efforts to improve the sanitary condition of the huts and lines of Native troops have been unremitting, and to the results of these may, in a great measure, be attributed the comparatively favorable state of health enjoyed by the Native Army during an unhealthy year. Scavenging, drainage, water-supply, ventilation of huts and lines, have all received careful attention; and although much remains to be done, nearly all has been effected that could possibly be carried out with the available means and under existing circumstances. In some cases the sites of lines are naturally bad, and so long as financial exigencies prevent the construction of proper drains, it is quite impossible to entirely prevent the pollution of the ground by sewage. Again, as to the huts, it is quite easy to describe what a sepoy's hut ought to be, but the Native soldier cannot afford to erect a more perfect and, therefore, more expensive dwelling than the one which he now inhabits. It would be a matter of economy were the State to provide quarters for the Native as it does for the European Army, but till that be done we can only try to reduce the unhealthy features of Native lines and their surroundings to a minimum."

10. Mr. Balfour's views are, no doubt, consistent with the facts, but it may be suggested that the sepoy might be advised, or in cases where the Government grants assistance, required to conform to such simple constructive sanitary principles in erecting his hut as shall obviate the defects referred to. Generally speaking, it is not so much money that is needed as an intelligent application of means at the sepoy's disposal. But thanks to the energy of the authorities, much has been already done to remedy defects, and to provide more healthily constructed lines for Native troops. The problem would be greatly simplified were it possible to get rid of the crowd of people who follow the Native soldier and prey on his limited means of subsistence, or, at all events, to limit the number. The Native soldier in the Madras Army not only has to support his family out of his small means, but an army of paupers, many of whom are described in these reports as being quite able to find their own living. The result is that the servant of the State is badly fed, insufficiently clothed, his hut is crowded to excess, and the sub-soil of the lines and huts in which he lives is fouled to a far greater degree than would be the case without them.

11. The reports clearly show that some of the most important drainage works for Native lines could be executed by unskilled labour, if properly directed; and if the labourers are there and are fed by the soldier really at the cost of the State, it becomes a question whether this labour might not be made useful in draining wet ground, and for general improvements in the drainage of stations. There are, of course, some portions of the work requiring special material and more skilful labour in its use.

12. There are facts sufficient, in the preceding abstracts, to show that there is a large amount of drainage work required at most of the stations.

Note much has been gained in the way of experience in this matter, and the principles long since laid down by the Army Sanitary Commission on the subject may still be taken as a guide. These may be summarized as follows:—

(1). Station drainage for removal of rainfall must be effected over the surface.

(2). Mere surface cuts, except on steep inclines only, afford a more certain means of water-lodging the sub-soil.

(3). Efficient surface drainage requires that the rainfall and all other liquids received by the drains shall be kept out of the sub-soil, and passed to the outfall as rapidly as possible.

(4). Box drains or V-shaped drains for such purposes, although greatly superior to mere cuts, are useful only so far as they are impervious and easily cleansed; and broad,

shallow, impervious saucer-sectioned drains are the best for meeting the conditions of drainage described in the present report.

(5). Some remedy for damp floors, even in existing huts, might be found in raising the floors above the ground level by clean wholesome earth, and further by raising the beds on charpoys, or some similar contrivance. In new huts means could be adopted to prevent damp in both floors and walls.

(6). The important question of latrines for families in Native lines requires to be dealt with.

Lastly, the principles for protecting wells from sub-soil pollution may be again stated. They are as follow:—

The best wells to be selected for culinary and drinking purposes. The tubes of these wells to be protected by a layer of concrete round the tube to a sufficient depth to cut off the impure sub-soil drainage. The tube to be raised two or three feet above the surface level, and the surrounding area concreted with a slope away from the well, and with drainage for the removal of waste water. The well to be covered.

Water to be drawn, not by dipping everybody's vessel and cord into the well, but by an iron bucket and iron chain.

No. 30. ORDER THEREON, 3rd December 1877, No. 1,923 W.

COMMUNICATED to District Engineers concerned.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following :—

No. 31.

IMPERIAL, ROADS AND BUILDINGS.

PART I.—*Irregularities with respect to Estimate for the Month of August* 1877.

Item No.	Particulars.	Amount of Estimate.	Expenditure up to date.	Excess over Estimate.	Expenditure during Month.	Opinion of the District Engineer, with final Remarks by Examiner.	Orders by Local Government.
		RS.	RS.	RS.	RS.		No. 32. ORDER THEREON dated 4th December 1877, No. 1,925 W.
	Bangalore.						
1	Cutting and deepening the supply channel from the Ulsoor tank to the Dhobies' wells.	...	658	658	...	The Government in their Proceedings, No. 756 W, dated the 20th September 1877, state that the District Engineer has been addressed upon the subject and pending his reply no orders can be passed.	1. IT appears that this expenditure is not really 'objectionable,' an estimate for the work having been included in the general estimate which received the sanction of the Government of India in August last. *Vide* G.O., No. 589 W, dated 16th August 1877. A very short reference from the Examiner to the District Engineer, or from the District Engineer to the Examiner, would have secured the removal of this item some time back.
2	Repairing mud wall around Arsenal Fort, Bangalore.	...	1,961	1,961	132	The District Engineer reports that the estimate has been submitted to the Military authorities for sanction.	2. An estimate is now under the consideration of Government.

PART I.—*Irregularities with respect to Estimate*—(Continued).

Item No.	Particulars.	Amount of Estimate.	Expenditure up to date.	Excess over Estimate.	Expenditure during Month.	Opinion of the District Engineer, with final Remarks by Examiner.	Orders by Local Government.
	Cananore.	RS.	RS.	RS.	RS.		
3	Improving drainage of European Infantry Barracks at Cannanore.	5,500	5,919	419		The District Engineer reports that this excess is principally due to certain items having been under-estimated for, and to alterations that were found necessary when carrying out the work.	3. A revised estimate should be submitted by the District Engineer.
	Mount.						
4	Renewing and reconstructing Commissariat godown at Mount.	...	357	357	...	The District Engineer reports that an estimate has been submitted for the approval of the Military authorities.	4. *Vide* G.O., No. 1,251 W, dated 25th October 1877, sanctioning an estimate for this work.
	Nellore Central.						
5	Making road from the trunk road near Kaval to salt platform.	...	6,723	6,723	167	The District Engineer's reply to a reference made by this office is awaited.	5. Recorded.
	Presidency.						
6	Constructing two ovens at the Government Bakery.	...	1,186	1,186	42	The District Engineer states that an estimate will be submitted to Government for sanction.	6. The District Engineer will hasten the submission of an estimate for this work.
7	Road from Expense Magazine to Powder Magazine.	...	427	427	107	The District Engineer states that an estimate is called for, and on receipt it will be sanctioned and funds allotted.	7. Noted.
8	Constructing buttress for supporting the enclosure wall at Merchant Magazine.	...	303	303	47	The District Engineer reports that an estimate will be submitted to Government for sanction and allotment of funds as soon as it is received from the Executive Officer.	8. Noted.
9	Constructing buttress inside the Magazine at the Gunpowder Factory	...	399	399	399	Do. do. do.	9. Noted.
	Sirulur,						
10	Opening Ennore Bar. ...	...	9,226	9,226	2,193	The reference made to the District Engineer by this office has not yet been replied to.	10. Recorded.

Part II.—Irregularities with respect to Appropriation for the Month of August 1877.

Item No.	Particulars.	Amount of Appropriation.	Expenditure of the year.	Excess over Appropriation.	Expenditure during Month.	Opinion of the District Engineer, with final Remarks by Examiner.	Orders by Local Government.
		RS.	RS.	RS.	RS.		
	Mount.						
	New Barracks at Poonamallee ...	...	6,816	6,816	224	The District Engineer has not yet replied to a reference made by this office.	11. No further orders are required. Funds will be provided, if possible, before the close of the year.
	Nilgiri.						
	House-rent paid to Captain Nangle, Garrison Inspector	...	980	980	...	The District Engineer states that Captain Nangle has been addressed on the subject.	12. Without clearer information the Government cannot pass orders.
	Sirulur.						
	Opening the Ennore Bar	...	5,165	5,165	2,193	The District Engineer has not replied to the reference made by this office.	13. Do. do.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 33. From W. S. HARINGTON, Esq., District Engineer, Madura, to the Secretary to Government, Public Works Department, dated Camp, Ammanaickenoor, 17th August 1877, No. 101.

AT the instance of the Superintendent of Police, Madura, I have the honor to submit for the sanction of Government the enclosed plan and estimate of Rupees 2,400 for constructing eight Police huts at Trippatoor.

One copy of the Superintendent's letter.
" Estimate.
" Plan.
" Specification.

2. This work will be included in the outgoing Budget for 1878-79.

No. 34. ORDER THEREON, 4th December 1877, No. 1,926 W.

THE plan and estimate of Rupees 2,400 for constructing eight Police Huts at Trippatoor in the Madura District are sanctioned. The work will be carried out from the provision for Police works to be made in the Public Works Budget of 1878-79.

2. This sanction has been registered as Provincial No. 225 B. of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 35. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 28th November 1877, No. 5,270.

I HAVE the honor to forward for sanction the accompanying Department Public Works plan and estimate with the specification, &c., amounting to Rupees 900, for improving and altering Police station-house at Tella Proddatore, Cuddapah District, formerly a travellers' bungalow.

2. The necessary provision has to be made in the Department Public Works Budget Estimate for 1878-79.

3. The documents are submitted *direct* at the request of the District Officer to save delay. The work is proposed to be carried out by Department Public Works during the ensuing official year.

No. 36. ORDER THEREON, 4th December 1877, No. 1,927 W.

THE plan and estimate of Rupees 900 for improving and altering the Police station-house at Proddatore in the Cuddapah District are sanctioned. The work will be carried out from the provision for Police works to be made in the Public Works Budget of 1878-79.

2. This sanction has been registered as Provincial No. 223 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works

Read the following paper :—

No. 37. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 15th November 1877, No. 5,117.

I HAVE the honor to forward for sanction six estimates with as many rough plans and specification reports, amounting to Rupees 1,255, for the construction by departmental arrangement of the buildings specified in the margin in the Vizagapatam District during 1878-79.

	RS.
5 Huts at Vapagunta, (Vizianagram Range) ..	150
12 Huts at Bimlipatam (do.) ..	360
18 Do. at Nursipatam (Golgonda Range) ..	540
1 Station-house at Komarada (Jeypore Range) ..	50
1 Station-house at Sivarampuram, (Vizianagram Range) ..	85
1 Station-house at Chesikullu ..	70
Total ..	1,255

2. The necessary provision has to be made in the Department Public Works Budget estimate for the ensuing official year.

3. Sites for the buildings have been secured.

No. 38. ORDER THEREON, 4th December 1877, No. 1,928 W.

HIS GRACE the Governor in Council sanctions the plans and estimates amounting to Rupees 1,286 after revision in the Chief Engineer's Office for the undermentioned works in the Vizagapatam District, to be carried out by the Police Department from the provision for Police Works in the Public Works Budget of 1878-79 :—

	RS.	NO.	
5 Huts at Vapagunta	150	217	B. of 1877-78.
12 Do. at Bimlipatam	360	218	
18 Do. at Nursipatam	510	219	
Station-house at Komarada	*58	220	
Do. at Sivarampuram	*97	221	
Do. at Chesikullu	*81	222	
Total ...	1,286		

* Estimates corrected in the Office of the Chief Engineer, Public Works Department.

2. This sanction has been registered as Provincial and numbered as shown above.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 39. Endorsement of the Under Secretary to Government, Financial Department, dated Fort St. George, 27th November 1877, No. 2,210.

Proceedings of the Board of Revenue, dated 26th September 1877, No. 4,496.

From A. WEDDERBURN, Esq., President of the Local Fund Board, Coimbatore, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated 20th August 1877, No. 33 :—

1 Copy of the District Engineer's letter.
1 Do. of a Statement.
1 Extract from the Proceedings of the Local Fund Board.

THE Acting District Engineer with his letter No. 5-C.I., of 6th July 1877, (copy attached,) forwarded to the Local Fund Board a list of sums, aggregating Rupees 4,003-3-7, due for work done in 1876-77 in excess of the year's maintenance grants of certain roads in the Irrigation Range, and recommended that one-half of the amount be paid from the current year's reserve (of which only Rs. 5,000 are available as per revised Budget), the other half being met from the current allotments of those roads.

2. The Local Fund Board, after considering the present low financial position of the Local Funds in consequence of the famine, were not in favor of admitting this large unauthorized charge, and they have accordingly, at their meeting held on the 18th July 1877, resolved to submit the subject for the consideration of Government. I have therefore the honor to submit an extract from the Proceedings of the Local Fund Board for such orders as the Revenue Board and Government may wish to pass thereon.

ENCLOSURE No. 1.

From Captain A. AWDRY, R.E., Acting District Engineer, Coimbatore, to A. WEDDERBURN, Esq., President of the Local Fund Board, Coimbatore, dated 6th July 1877, No. 5-C.I.

I HAVE the honor to forward a list of sums due for work done in 1876-77 on several of the roads in the Irrigation Range, which Mr. Supervisor Scott requests permission to pay from the maintenance grant for this year on the roads.

2. Mr. Scott's conduct in permitting his Overseers to carry out work in excess of the allotment is in direct opposition to the orders of Government and this office, and I can make no defence for it. His defence is the lame one of a deficit to be paid at the commencement of last year, and great cost of upkeep in the year. No doubt the roads were more expensive to keep up than usual last year, owing to lack of water and extraordinarily heavy traffic, but as extra money was not available the roads should have had only such repairs done to them as there was money to pay for, and they would necessarily (and with fair justification to the officer in charge) have somewhat deteriorated.

3. In the revised Budget which I sent in to you I was careful not to touch the reserve, and from that amount I would now recommend the grant of a moiety of the debt in the Irrigation Range, the other moiety being paid from the maintenance grants for the current year for the roads in question.

4. It would, I consider, be unfair on other more provident Range Officers to put a premium on the practice hitherto in the Irrigation Range of spending more than allotted, as such extra expenditure if provided for specially must come from the other roads on which more care in accounting has been taken.

5. I have ordered Mr. Scott to pay these debts and to certify to me that he has done so before he spends any more money on the roads in question. I have also instructed him to send in a statement of the balance then available for expenditure on each road with suggestions for such transfers as he deems advisable amongst them.

ENCLOSURE No. 2.

STATEMENT showing the Amounts due after 24th June 1877 for Repairs done on the different Roads in the official year 1876-77 in the Irrigation Division of the Coimbatore District.

No.	Names of Roads.	Expenditure in 1876-77 now to be paid for. RS. A. P.	Remarks by the President.	RS.
1	Burghoor Ghaut Road.—Item No. 14 of Part II of Budget for 1876-77.	728 3 5	Allotments for 1876-77 for portions of these roads within Irrigation Range ...	3,690
2	Hassanoor Ghaut Road.—Item No. 13 of Part II of Budget for 1876-77.	1,143 1 8	Do. do. do. ...	4,170
3	Great Western Road.—Item No. 11 of Part II of Budget for 1876-77.	420 0 0	Do. do. do. ...	2,420
4	Old Caroor Road.—Item No. 5 of Part II of Budget for 1876-77.	106 10 11	Do. do. do. ...	1,490
5	Bhowany to Sattiamungalum.—Item No. 4 of Part II of Budget for 1876-77.	798 15 1	Do. do. do. ...	3,740
6	Andyoor to Attany.—Item No. 1 of Appendix to Part II of the Budget for 1876-77.	306 4 6	Do. do. do. ...	880
7	Annoor Road.—Item No. 3 of Part II of the Budget for 1876-77.	500 0 0	Do. do. do. ...	2,200
	Total ...	4,003 3 7		

COIMBATORE,
6th July 1877.

(Signed) A. AWDRY, Captain, R.E.,
Acting District Engineer.

ENCLOSURE No. 3.—Extract from Proceedings of Local Fund Board.

SUBMITTED for the orders of Government.

2. It is observed from a statement furnished by the District Engineer that Rupees 18,590 were allotted for expenditure in 1876-77 on certain roads in the Irrigation Division of the Coimbatore District in charge of Mr. Supervisor Scott, and that Rupees 4,003-3-7 were spent in excess of the allotment. The District Engineer remarks that Mr. Scott's conduct in allowing his Overseers to carry out work in excess of the allotments is indefensible and directly opposed to the orders of Government, and proposes to meet the excess expenditure partly from the Road Fund Reserve and partly from the current year's maintenance grants for the roads in question. The Local Fund Board have declined to admit the charge and have submitted the case for the orders of Government.

3. As the expenditure reported on has to be paid, the Board see no other way of getting over the difficulty than by acting up to the District Engineer's suggestion; but with reference to G.O., Public Works Department, dated 12th June 1877, No. 225-W, they resolve to request Government to pass such orders as they may deem fit regarding Mr. Scott's conduct and thus prevent a recurrence of such irregularities.

(True Copies and Extract.)

(Signed) C. A. GALTON,
for Acting Sub-Secretary.

TRANSFERRED to the Public Works Department.

(Signed) J. STURROCK,
Under Secretary.

No. 40. ORDER THEREON, 4th December 1877, No. 1,929 W.

RECORDED with the remark that Supervisor Scott has been reduced to the rank of Overseer, 1st Grade, and removed from the district.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 41. From Major J. W. HINDLE, S.C., District Engineer, Kurnool, to the Chief Engineer, Public Works Department, dated Camp at Yeldoorty, 25th November 1877, No. 103/2,577.

I HAVE the honor to forward copies of letters noted below and to request the favor of your furnishing me with instructions regarding the safe custody of the cash balance and cheque books by the Divisional Officers in this district.

Letter No. 509, dated 20th November 1877, from the Divisional Officer, Kurnool, to the District Engineer.

No. 314/2,529, dated 21st November 1877, from the District Engineer, to the Divisional Officer, Kurnool.

No. 524, dated 22nd November 1877, from the Divisional Officer, Kurnool, to the District Engineer, regarding the cash-chest for safe custody of cash and cheque books.

No. 322/2,559, dated 22nd November 1877, from the District Engineer, to the Divisional Officer, Kurnool.

No. 42. ORDER THEREON, 4th December 1877, No. 1,930 W.

THE marginal Government Orders contain the views of Government on the subject of cash-chests. It is presumed that those orders are acted up to in the Kurnool District.

No. 996, dated 4th April 1871.
„ 994, „ 31st March 1873.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads
Military Works.

Read the following paper :—

No. 43. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Public Works Department, Buildings and Roads Branch, dated Fort St. George, 23rd November 1877, No. 4,878.

I HAVE the honor to report that my attention having been called to the insecure condition of a heavily roofed verandah on the upper story of the Gun Carriage Superintendent's house, I ordered it to be taken down. This led to further examination of the upper rooms, which proved to be in such a dangerous state that I had no alternative but to dismantle them at once. This has been done, and I have directed the Northern Range Officer to proceed with the necessary repairs which will cost approximately Rupees 2,500. A detailed estimate is now being prepared.

No. 44. ORDER THEREON, 4th December 1877, No. 1,931 W.

THE detailed estimate, accompanied by a report, will be awaited.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.
Military Works.

Read the following paper :—

No. 45. Proceedings of the Madras Government in the Military Department, dated 20th November 1877, No. 6,432.

ABSTRACT.—Approving the suggestion of His Excellency the Commander-in-Chief that the proposal of the District Engineer, Bangalore, to lay the flooring of the Commissariat godowns at that station with large flag stones, should be tried on a portion of the buildings in the first instance.

No. 46. ORDER THEREON, 4th December 1877, No. 1,932 W.

HIS GRACE the Governor in Council provisionally sanctions the estimate of Rupees 5,930 for reflooring with large flag stones the Commissariat store-rooms in the Bakery Square at Bangalore, subject to the success of the experiment which should be carried out on a limited area.

2. Colonel Moberly is authorised to set the work in hand at once, funds to the extent of Rupees 300 to commence with being provided from the Reserve under Military.

3. This sanction has been registered as Imperial No. 86 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Military Works.

Read the following paper :—

No. 47. From Major P. MONTGOMERIE, R.E., Officiating District Engineer, Presidency, to the Chief Engineer, Public Works Department, dated Fort St. George, 6th June 1876, No. 1,192.

I HAVE the honor to submit for instructions the plan and estimate, amounting to Rupees 10,000, for constructing a new story on the quarters of the Commissary of Ordnance, Fort St. George, which I have had prepared in strict accordance with the Orders of Government, No. 3,000, dated 27th October 1875, together with the correspondence as per margin* between this office and the Inspector-General of Ordnance on the subject, and the original plan and approximate estimate proposed by Colonel Goddard.

Two Plans.
One Abstract Estimate, Rupees 10,000.
„ Specification.
„ Copy of approximate Estimate.
„ Copy of District Engineer's No. 837, dated 20th May 1876.
Three Original letters from Inspector-General of Ordnance and Magazines.

* This Office No. 837, dated 20th May 1876.
Inspector-General of Ordnance and Magazines No. 884, dated 23rd May 1876.
Do. do. No. 1,002, dated 31st May 1876.
Do. do. No. 1,040, dated 3rd June 1876.

2. Colonel Cadell's proposal to have the upper story on a level 4 feet 9 inches higher than in my plan with a verandah all round the front would, of course, be an immense improvement, but this would run up the amount of the estimate to more than I considered myself justified in doing, and besides the Arsenal is only one foot higher than the level on which I propose constructing the new floor. The offices of the Accountant-General and Quartermaster-General are both so lofty that a few feet one way or the other would make very little difference so far as they are concerned.

3. I have therefore the honor to request you will let me know at an early date whether I am to prepare the estimate in accordance with the further demands of the Inspector-General, retaining the two lower stories for the use of offices, or to submit a detailed estimate on Colonel Goddard's plan by which the lowest story only would be available for shot and shell as also suggested by Colonel Cadell.

No. 48. ORDER THEREON, 4th December 1877, No. 1,933 W.

HIS GRACE the Governor in Council sanctions the plan and estimate of Rupees 9,220 for constructing a second story to the quarters occupied by the Commissary of Ordnance in Fort St. George for immediate execution.

2. The necessary funds have been appropriated for the work in G.O., No. 1,866 W, of 29th November 1877.

3. This sanction has been registered as Imperial No. 87 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Military Works.

Read the following paper :—

No. 49. Proceedings of the Madras Government in the Military Department, dated 26th November 1877, No. 6,523.

ABSTRACT.—Approving estimate for improving the ventilation of the Officers' quarters at Malliapuram by sloping the cutting on the southern side.

No. 50. ORDER THEREON, 4th December 1877, No. 1,934 W.

THE estimate of Rupees 900 for improving the ventilation of the Officers' quarters at Malliapuram by sloping the cutting on the southern side is sanctioned.

2. The District Engineer will apply for funds in his statement of demands against the Reserve of 1878-79.

3. This sanction has been registered as Imperial No. 85 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 51. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 4th October 1877, No. 4,447.

I HAVE the honor to forward, for the *early* sanction of Government, the accompanying plan and estimate (Rupees 457) with specification report and the correspondence as per margin, for alterations and improvements to the Police Hospital at Collegal, Coimbatore District.

The Surgeon-General's memorandum No. 5,533, dated 1st September 1877, to the Inspector-General of Police.
The Acting District Engineer's letter No. 92 C. I., dated 25th September 1877, to the Superintendent of Police.

2. The Police sick are now treated in a ward which was formerly a cell for prisoners and is unfitted for hospital purposes, the front being open fret work which is highly objectionable in a feverish climate such as Collegal has as pointed out by the Surgeon-General. The work now proposed, remedies all defects and provides glazed windows, is urgently required and will be carried out by Department Public Works in 1877-78.

3. Should the above proposal meet the approval of Government, I request that sanction may be accorded for appropriation of Rupees 457 from the Provincial Reserve of 1877-78 as a special case, there being no funds available in the District allotment for new works during the current official year.

No. 51-A. From the same Officer, dated Madras, 22nd November 1877, No. 5,199.

WITH reference to the Deputy Chief Engineer's memorandum No. 3,645, dated 31st ultimo, I have the honor to state that I concur in the suggestion of the improvement referred to, and the plan and the revised estimate, &c., amounting to Rupees 480 for altering and improving the Collegal Police Hospital, are accordingly retransmitted with the necessary alterations for sanction.

No. 51-B. From the same Officer, dated Madras, 30th November 1877, No. 5,305.

WITH reference to my letter No. 5,199 of the 22nd instant, I have the honor to request sanction for the transfer of Rupees 260 from the current year's allotment for new works of the Trichinopoly District to that of Coimbatore towards the expenditure of Rupees 480 for improving the Collegal Hospital mentioned therein.

2. The Superintendent of Police, Trichinopoly, reports that the sum of Rupees 260 sanctioned in G.O. No. 613 W, dated 20th August 1877, Public Works Department, for a wire fencing round the Cantonment Police station cannot be utilized for the purpose, the Executive Engineer having intimated that "no wire fencing can be procured, nor can any other description of fencing be constructed within the amount."

No. 52. ORDER THEREON, 4th December 1877, No. 1,945 W.

HIS GRACE the Governor in Council sanctions the plan and estimate of Rupees 480 for altering and improving the Police Hospital at Collegal in the Coimbatore District.

2. Rupees 260 are appropriated by transfer from the source indicated by the Inspector-General in his letter No. 5,305, dated 30th November 1877, and the balance of Rupees 220 from the Provincial Reserve.

3. The roof being hipped it is not understood how the ventilation windows can be placed as shown on the plan. Iron-barred dormer windows with glass sashes would be more likely to thoroughly meet what is wanted.

4. This sanction has been registered as Provincial No. 224 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 53. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 4th December 1877, No. 1,962 W

SIR,—I am directed to forward for the information of His Excellency the Governor-General in Council the accompanying copy of Proceedings of the 1st December 1877, No. 1,902 W, which explains the circumstances under which the Government of Madras have resolved to replace at the disposal of the Government of India the services of Mr. F. G. Brooks, Executive Engineer, 2nd Grade, which were made available for employment on Famine Relief Works in this Presidency.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 54. From Lieutenant-Colonel R. B. KENNEDY, R.E., District Engineer, Malabar, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Camp, Luckadie, 28th July 1877, No. 58.

	RS.
One Police Station-house at Elatur ...	745
" " " at Teriote ...	1,760

I HAVE the honor to forward for sanction plans and estimates as per margin, and to state that the Inspector-General of Police has approved the projects.

No. 54-A. From the same Officer, dated Camp, Luckadie, 30th October 1877, No. 110.

Reference.—Memorandum No. 3,013, dated 2nd instant.

WITH reference to above, I have the honor to return plan and estimates for constructing Police stations at Elatur and Teriote, and to state that they have been revised as directed in paragraphs 2 and 3 of your memorandum.

2. As regards paragraphs 4 and 5, I have to state there are arm-racks already provided in the present temporary buildings and provision for new ones is therefore omitted, and as the exact sites have not as yet been fixed no survey is yet possible.

No. 55. ORDER THEREON, 4th December 1877, No. 1,964 W.

THE plans and estimates for the undermentioned works in the Malabar District, to be carried out from the provision for Police Works Budget of 1878-79, are sanctioned :—

	RS.	NO.	
Police Station-house at Elatur	745	226	B of 1877-78.
Do. do. at Teriote	1,760	227	

2. This sanction has been registered as Provincial and numbered as shown above.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 56. From Major J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 16th November 1877, No. 458.

WITH reference to Revenue Department G.O., F.R., No. 2,315-A, dated 12th October 1877, I have the honor to submit an estimate, amounting to Rs. 3,887-11-7, for repairing the lower portion of the Kotergherry ghaut, which was much injured by successive storms of rain on the 30th of September and on the 18th and 28th of October last.

2. The Collector of Coimbatore could not supply me with any relief coolies for this work.

3. The lower half of the Kotergherry ghaut is made in very steep ground. The hill side is composed of a hard gravelly soil, interspersed with boulders and rocks. During the dry weather the hill side is rendered very friable and the very little grass and vegetation that do grow are entirely killed. To walk over the ground in this dry weather is a matter of much difficulty owing to slippery little nodules which lie scattered over the baked surface. When the ground is in this condition the north-east monsoon (which strikes against that side of these hills with great force) suddenly bursts upon it. The result is that the dry, gravelly and rocky surface is all swept into the ravines, and so down on to the road culverts and bridges, the mouths of which it speedily chokes; the water in a very large quantity then tears over the road, cutting it to pieces, and over the revetment walls on to the foundations, where it was never expected, knocking down a few and undermining many others. To give an instance :—At one of the few zigzags of this ghaut are two teak bridges built over the same stream, one immediately above the other. The other day the storm swept on to the mouth of the upper of the two bridges an extraordinary quantity of earth, stones and rocks, completely filling it up to the level of the road platform. The water then dashed over the platform sweeping away the railings and falling in a large cascade several tens of feet down on to the apron below the floor. This it moved bodily on to the lower bridge, blocking up in turn its mouth. It then escaped down the falling gradient over an adjoining revetment, a small piece of which it threw down. The waters scoured out the earth of the upper bridge almost down to the level of the foundations of its return walls, and had they not been well-founded they must have gone, carrying away both bridges in their fall.

4. The works provided for in the estimate are, first, the removing of large slips of earth and rocks which have been brought on to the 10-foot roadway. Two of these rocks are of enormous size and each weigh approximately nearly 275 tons. Secondly, the building of stone aprons and other protective works to existing retaining walls, bridges and culverts, to save the existing structures, which are of large size and have cost some money. And, thirdly, the substitution of a bridge for a drain, the water-way there having proved insufficient, and the substitution of some first-class for second-class drains, and the addition of a few third-class drains.

5. As it was of the utmost importance to save, on a much frequented road, existing costly structures from further inevitable and serious injury, and as this ghaut was entirely closed to traffic, causing a temporary loss to the toll contractor who had purchased the toll and who might claim damages for further loss, I have taken upon myself to begin the works estimated for in anticipation of sanction. The road is now open to pack animals. I hope it will soon be available as before for cart traffic.

6. The Nilgiri Local Fund Board having not only no funds at their disposal, but being largely in debt, I have taken the liberty of forwarding this direct to you, as from the Board under the circumstances no sort of assistance could be expected.

7. To in a measure obviate the recurrence of some of these disasters I also beg to append, for sanction and provision of funds, a separate estimate, amounting to Rupees 1,026, for providing a catch drain to the lower 10 miles of the ghaut. This the original estimate did not provide for. This work I will not commence until sanctioned.

No. 4,084.

TRANSFERRED to the Revenue (Famine) Department, for early orders with reference to Order in the Revenue (Famine) Department, No. 2,315-A, dated 12th October 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Chief Engineer, P.W.D.

23rd November 1877.

THE estimate is sanctioned.

(Signed) J. H. GARSTIN,
Addl. Secy. to Government.

26th November 1877.

No. 57. ORDER THEREON, 4th December 1877, No. 1,965 W.

THERE are no funds available for appropriation to the work, but the District Engineer will proceed with such *repairs* as are emergent, the cost being charged to Provincial.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Military Works.

Read the following papers :—

No. 58. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Buildings and Roads, dated Fort St. George, 26th November 1877, No. 4,934.

WITH reference to my letter No. 4,869, dated 22nd November 1877, I have the honor to request that you will be good enough to transfer the balance of Rupees 20,780 as per margin to the undermentioned Military New Works and Repairs to enable me to put them in hand and complete them within the close of the current official year :—

Rs. 30,000 Available balance of 50,000 Rupees allotted for Poodoopet Lines site.
„ 9,220 Deduct. Proposed for Commissary of Ordnance quarters.
„ 20,780 Balance available.

New Works.

	RS.
Verandah to the District Engineer's quarters. G.O., No. 1,952, dated 15th August 1872	6,180
Venetian shutters, &c., to the south-east verandah of the office of the Controller of Military Accounts. G.O., No. 2,647, dated 2nd October 1876	457

Repairs.

Rebuilding upper rooms of the quarter of Superintendent of Gun-Carriage Manufactory	2,500
Regravelling roads in the lines of 10th Regiment	2,020
Repairing roof, &c., of the place-of-arms of 33rd Regiment, N.I...	2,970
Repairing coal sheds at the Powder Mills	2,300
Repairing No. 7 Captain's and Nos. 14 and 15 Subaltern's quarters, Fort	5,350

No. 59. ORDER THEREON, 4th December 1877, No. 1,966 W.

THE sum of Rupees 2,500 is provided for the execution of certain emergent repairs to the Gun Carriage Superintendent's house from the balance of the amount surrendered to Government by the District Engineer, Presidency, from the grant for the Poodoopet lines and credited to the Reserve in G.O., No. 1,866 W, of 29th November 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper:—

No. 60. Endorsement of the Acting District Engineer, Cuddapah, dated 30th November 1877, No. 2,173.

Copy of a letter from the Officer in charge, Sidhout Range, to the District Engineer, Cuddapah, dated Wontimettah, 21st November 1877, No. 1,898.

WITH reference to G.O., No. 2,193, F.R., dated 6th October, 1877, and G.O., No. 2,453, F.R., dated 19th October 1877, I have the honor to enclose a copy of this Office No. 1,899, dated 21st November 1877, for your information and for communication to the Chief Engineer, Department of Public Works.

2. In forwarding this letter I can only state that the work has not been carried out as provided for in the estimate, and that a good deal of work yet remains to be done before they can be said to be complete.

3. Moreover, owing to faults in their construction more work will be required than is provided in the estimate before they can be said to be efficient.

4. I can find no fault with the Overseer who framed the estimate. I believe he made the estimate in good faith and that on the best information procurable at the time; that one quarry was opened much nearer than he provided for is true, but this quarry did not exist when the estimate was made. The quarry is in Puttah land and was purchased by the contractor for the purpose of opening a quarry. The Overseer would not have been justified in depending on opening a quarry at this place. All other parts of the estimate are our usual rates and which are being passed daily.

SUBMITTED for information of the Chief Engineer for Buildings and Roads, with reference to G.O., Nos. 1,093 W and 1,265 W, dated 18th and 25th October 1877.

Enclosures three (to be returned).

(Signed) J. TRAILL, C.E.,
Acting District Engineer, Cuddapah.

No. 61. ORDER THEREON, 5th December 1877, No. 1,972 W.

COMMUNICATED to the Revenue (Famine) Department, with reference to G.O., dated 19th October, F.R., No. 2,453.

2. It is remarked that no accurate comparison can be drawn between the work carried out under Mr. Fellows' directions and that estimated for by the Public Works Department.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 62. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 28th November 1877, No. 5,269.

I HAVE the honor to forward for the *early* sanction of Government the accompanying estimate, amounting to Rupees 110, for repair, by departmental arrangement, of the Chetput Police Station-house in the North Arcot District in 1877-78.

2. The expenditure is necessary to prevent dilapidation. The present value of the station-house is reported to be Rupees 250.

3. Funds are available from the current year's repair allotment of the district. There is no other available source from which the charge can be met in 1877-78.

No. 63. ORDER THEREON, 6th December 1877, No. 1,986 W.

THE estimate of Rupees 110 for repairing the Chetput Police Station-house in the North Arcot District is sanctioned. Funds will be provided from the source indicated by the Inspector-General of Police in paragraph 3 of the foregoing letter.

2. This sanction has been registered as Provincial No. 228 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 64. From Major J. BEATTY, R.E., Officiating Superintending Engineer, Godavery District, to the Chief Engineer for Buildings and Roads, dated Camp, Dowlaishweram, 11th August 1877, No. 1,541.

I HAVE the honor to forward herewith, duly countersigned by the Inspector-General of Police, a plan and estimate amounting to Rupees 740 for constructing a new Police Station-house at Dumagudiem, and to request you will be good enough to submit it for the sanction of Government.

One Plan.
,, Estimate.

2. The Superintendent of Police informs me that the work should be carried out by this department, and that it will be included in the District scheme for 1878-79.

No. 64-A. From the same Officer, dated Camp, Dowlaishweram, 29th October 1877, No. 2,446.

WITH reference to your memorandum No. 2,992 of 29th ultimo, I have the honor to report that the Superintendent of Police informs me he considers the cheap design of station-house furnished by Mr. Vanstavern as better suited to the special circumstances at Dumagudiem than the standard design, and I observe by paragraph 3 of Colonel Hearn's letter, printed with G.O., No. 870 W, of 4th October 1877, that the Inspector-General is also of opinion that adherence to the sanctioned standard plans need not be enforced in localities where buildings of a cheaper description will answer all purposes.

2. Under these circumstances I think it best to defer preparing a plan and estimate of the standard design, which would probably cost over Rupees 1,000, until I hear further from you. The estimate is also not emergently necessary as the work is not to find a place in the Budget of 1878-79.

No. 64-B. From the same Officer, dated Camp, Dowlaishweram, 19th November 1877, No. 2,678.

WITH reference to your memorandum No. 3,753 of the 7th instant, I have the honor to inform you that it is proposed to construct the Police Station-house at Dumagudiem according to the plan submitted by the Divisional Officer, which, together with the estimate, are now resubmitted in order to your obtaining the sanction of Government.

One Plan.
" Estimate.

No. 65. ORDER THEREON, 6th December 1877, No. 1,987 W.

THE plan and estimate of Rupees 740 for constructing a Police Station-house at Dumagudiem in the Godavery District are sanctioned.

2. The work will be carried out from the provision for Police works to be made in the Public Works Budget of 1878-79.

3. This sanction has been registered as Provincial No. 229 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 66. From the District Engineer, Salem, to the Chief Engineer, Public Works Department, dated Camp, Ahtoor, 1st December 1877, No. 150 S.L.

WITH reference to your telegram of the 26th November 1877, informing me of the intended despatch of a Company of Sappers to Salem, I have the honor to report that I propose to employ one-half of the Company at Baroor, and the other half at Marandahully.

2. If however the dividing of the Company is objected to on military grounds, the whole can be employed at Marandahully. As I presume they will come by sea to Madras and thence by rail to Salem, I shall feel obliged (if you approve of the above proposals) by your ascertaining whether there is any objection to the proposed division; if not one-half should be sent by rail to Morapore station and thence by road *via* Darampury (17 miles) and Palcode (14 miles) to Marandahully (9 miles). The other half should be sent to Samulputty station, from whence to Baroor is about 14 miles.

3. I shall also be glad to be informed if there are any men whom the Officer Commanding can recommend for detached duty in superintending coolies. An almost unlimited number can be employed in this way, and I should propose to pay Europeans and Native Commissioned Officers as 3rd Grade Overseers, and Native Non-Commissioned and Privates as Sub-Overseers at from Rupees 20 to Rupees 40 per month according to circumstances.

4. It will probably be inconvenient for me to return to Salem during the next fortnight, and I wish, if possible, to avoid having to do so in order to meet the Sappers.

No. 67. ORDER THEREON, 6th December 1877, No. 1,988 W.

THE Company being at the disposal of Government in the Public Works Department for civil works must be utilized to the fullest extent possible. There appears to be no objection to the division of the Company as proposed.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 68. From Captain A. AWDRY, R.E., Acting District Engineer, Coimbatore, to the Chief Engineer, Public Works Department, dated Coimbatore, 3rd December 1877, No. 155 CI.

I HAVE the honor to request that the following appointment may be sanctioned—

Gopaulsawmy Naidoo, 1st Gumastah, District Engineer's Office, to act as copyist on ... ... Rs. 25

as the Examiner declines to pass Gopaulsawmy's pay under G.O., No. 958 W, of 10th October 1877, as he is acting in an appointment on the permanent establishment.

2. The writer in question has not yet passed, but he is very quick and intelligent, and will shortly do so I am convinced. He knows the work of the office well and is hard working and of far more use than an outsider would be.

3. The 1st Writer (Mr. Brito) has been appointed as a temporary Overseer under G.O., No. 801 W, of 24th September 1877, and the appointment now in question is to fill the vacancy made in the office.

No. 69. ORDER THEREON, 7th December 1877, No. 1,990 W.

THE District Engineer should obtain the services of a duly qualified man for the vacant post.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 70. From the District Engineer, Salem, dated 24th November 1877, No. 148.

No. 71. ORDER THEREON, 7th December 1877, No. 1,991 W.

THE Government are of opinion that under the circumstances the charge for a horse-box may be disbursed in the case of Mr. Hughes and of other officers and subordinates who proceeded by sea to Madras on Famine duty. The other items disallowed by the Examiner cannot be admitted.

2. The Governor in Council considers that the Assistant Examiner should not have returned for filing in the divisional records a letter addressed to Government.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 72. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 7th December 1877, No. 1,992 W,

SIR,—I am directed to say that the Examiner of Public Works Accounts has been instructed to admit charges submitted by the officers and subordinates transferred from other Provinces who proceeded by sea to Madras on account of the purchase of horse-boxes, as His Grace in Council considers that horse-boxes were essentially a part of the travelling expenses to be borne by Government.

General.

Establishment.

Read the following paper :—

No. 73. From the Examiner of Public Works Accounts, dated 13th November 1877, No. 150 W.

No. 74. ORDER THEREON, 7th December 1877, No. 1,993 W.

THE Government have no desire to curtail the Examiner's powers in regard to the transfer of Accountants under his control. Manicum Moodelly, with others similarly circumstanced, must be held to belong to the Account Department, and the Examiner will exercise his powers of transfer in this and all other cases as laid down in G.O. No. 878, dated 4th April 1876.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 75. From J. O'SHAUGHNESSY, Esq., District Engineer, Nellore, to the Chief Engineer, Public Works Department, dated Nellore, 3rd December 1877, No. 3,104.

IN advertence to paragraph 9 of G.O., dated the 17th November 1877, No. 1,694 W, I beg to explain that the reasons given by the Executive Officers for the great delay in submitting the estimates for the Buckingham Canal are press of work and the want of sufficiently intelligent subordinates to give the necessary assistance in making the calculations.

2. There are good grounds for the reasons given by the Executive Officers, and I am so pressed myself in so many directions that I can scarcely look at anything that is not urgently required at the moment.

3. I must admit however that if a stronger effort was made the estimates might have been submitted before now, but I trust under the circumstances mentioned above to His Grace the Governor's indulgence to excuse the delay that has occurred. The fair plans and the rough calculations for the Iskapully Division are completed, and the complete estimate for this division shall be submitted in two or three weeks' time. I have reason to believe that the plans and estimate of the Kottapatam Division are also nearly ready, and the estimate for the Pulicat Lake extension is expected daily from the Executive Officer of the Kristnapatam Division.

4. I do not like to fix a date for the submission of all the estimates, but nothing shall be now allowed to interfere with their speedy completion and submission to Government with the least possible delay.

No. 76. ORDER THEREON, 7th December 1877, No. 1,997 W.

RECORDED.

2. The District Engineer will be careful to include cost of compensation for land taken up, and he will give accurate measurements stating the expenditure incurred in clearly demarcating by stones all such land taken up and included as canal property.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 77. Endorsement of the Under Secretary to the Government of India, dated Fort William, 27th November 1877, No. 835 E R.

Proceedings of the Government of India in the Financial Department, (Pay and Allowances—Acting Allowances,) dated Simla, 7th November 1877, No. 4,335.

Read—

Letter from the Government of Madras, No. 308 R, dated 14th August 1877, and enclosures, received in the Public Works Department, requesting confirmation of the sanction accorded by that Government to the distribution, among certain Clerks in the Office of the Consulting Engineer for Railways in Madras, of the salary of a Clerk in that Office, who has obtained one year's leave of absence without pay.

RESOLUTION.—The Proceedings of the Government of Madras are confirmed; but the attention of the Government of Madras is invited to the Resolution of the Government of India, No. 5,806, dated 11th October 1858. The Government of Madras will doubtless agree with the Government of India in thinking that, as a rule, it is better to maintain the strength of an office by employing a substitute in the place of an absentee.

ORDERED, that this Resolution be communicated to the Public* Works Department

* Papers returned (copy kept).

Ordered also, that this Resolution be distributed for information and guidance as follows :—

To the several other Departments of the Government of India;
To the several Local Governments and Administrations;
To the Comptroller-General; and to the several Accountants-General and Deputy Accountants-General in independent charge;
To the several Chiefs of Departments administered by the Government of India in the Financial Department.

(Signed) R. B. CHAPMAN,
Secretary to the Government of India.

COPY forwarded to the Secretary to the Government of Madras, Public Works Department, for information, with reference to his No. 308 R, of the 14th August 1877.

(By Order.)

(Signed) A. B. SAMPSON,
Under Secy. to the Govt. of India.

No. 78. ORDER THEREON, 7th December 1877, No. 1,998 W.

RECORDED and communicated to the Consulting Engineer for Railways with reference to G.O., No. 307 R, dated 14th August 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 79.	From the District Engineer, Malabar,		dated 5th	Nov.	1877,	No.	116.
No. 79-A.	From	do.	do. 16th	„	„	„	122.
No. 79-B.	From	do.	do. 28th	„	„	„	128.

No. 80. ORDER THEREON, 7th December 1877, No. 1,999 W.

THE list with the letter last submitted shows that the Overseer's charges in Malabar are twelve, to which twelve Overseers stand posted. Pending the re-organization and possible strengthening of the department, the provision of an extra Overseer for occasional duties cannot be sanctioned. Authority has already been granted to replace the services of Overseers removed for famine duty by passed candidates as temporary Overseers.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 81. Endorsement of the District Engineer, Presidency, dated 3rd December 1877, No. 5,092.

From J. N. GRAINGER, Esq., General Superintendent, Public Works Stores and Workshops, to Major ROSS THOMPSON, R.E., District Engineer, Presidency, dated Madras, 1st December 1877, No. 1,073.

One Indent in duplicate for Home Government.
One do. do. for Government of India.

IN compliance with G.O., dated 20th November 1877, No. 1,732 W, communicated under endorsement No. 4,964 of the 29th November 1877, I have the honor to forward for submission to Government indent in duplicate for stores required for use of the Madras Harbour Works.

2. A recast of the indent for the Government of India is also forwarded.

Three Indents.

SUBMITTED to the Chief Engineer, Public Works Department, with reference to G.O. No. 1,732 W, dated 20th November 1877.

(Signed) ROSS THOMPSON, Major, R.E.,
District Engineer, Presidency.

No. 82. ORDER THEREON, 8th December 1877, No. 2,012 W.

THE Indent will be forwarded to the Home Government.

(Signed) E. A. FOORD, Colonel, R.E,
Secretary to Government, P.W.D.

No. 83. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 8th December 1877, No. 2,013 W.

SIR,—I am directed to state that the Madras Government have this day made an emergent indent upon the Home Government for certain stores required for the Madras Harbour Works.

2. A copy of the indent recast in the form prescribed accompanies.

General.

Establishment.

Read the following paper :—

No. 84. From A. B. SAMPSON, Esq., Under Secretary to the Government of India, Public Works Department, (Establishment—General,) to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 30th November 1877, No. 1,683 E—G.

WITH reference to your letter No. 1,138 W, dated 19th October 1877, I am directed to annex copy of Public Works Department No. 287 E—G, dated the 15th February 1877, to the address of the Secretary to the Government of Madras, Revenue Department, and to state that as Mr. Petters was temporarily engaged on behalf of the Government of Madras, his services might be dispensed with at once, instead of being replaced at the disposal of the Government of India.

From the Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Madras, Revenue Department, dated 15th February 1877, No. 287 E—G.

REFERRING to your telegram of 23rd January 1877, I am directed to state that as Mr. Petters was not in the service of Government he has been temporarily engaged on behalf of the Madras Government for Famine Relief Works on the pay and allowances of a 1st Grade Overseer. Mr. Petters left Indore for Cuddapah on the afternoon of the 30th January.

No. 85. ORDER THEREON, 8th December 1877, No. 2,016 W.

COMMUNICATED to the District Engineer, Cuddapah, in continuation of G.O., No. 1,137 W, dated 19th October 1877. Mr. Leggatt was in that order directed to dispense with Mr. Petters' services.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 86. From F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, Buildings and Roads, dated Madras, 1st December 1877, No. 63 W.

I HAVE the honor to submit the following report of the progress on these works during the month of November.

2. *North Pier.*—The weather during the past month has not been favorable for rapid progress, but whenever the sea was sufficiently smooth for working at the ends of the breakwaters, work has been carried on.

3. On the first few days of the month the sand accumulation remained as deep as in October, and the iron caisson which was used to keep back the sand was so completely buried that the divers could not reach it. On the 6th November with the aid of a strong jet of water from a fire engine the divers managed to work through the sand to a sufficient depth to allow of the sling chains being fastened to the buried caisson, which was then lifted out of the water.

4. Since that date thirteen blocks have been successfully set, and by dredging in front of each course as it was set, I have been able to sink the blocks down to within a very short distance of the rubble base. This is a much more satisfactory method of procedure than that previously reported in October, namely, setting the blocks on the sand and protecting the foundation with foreshore only.

5. Although thirteen blocks is a very small number to have set in one month, I am glad to be able to state that, if the sea had been quieter, much more would have

been done, and, as it is, this number is more than has been set during the months of July, August, September, and October put together.

6. The length of the north pier from point B, where the blockwork commences, is now 341½ feet, and the length advanced during the month of November is 10½ feet. The difficulty caused by the sand accumulation is daily becoming less serious, and I confidently expect that much better progress will be made in December.

7. *Block-making.*—At the beginning of the month the block-making machinery was at work, making superstructure blocks for the south pier. Nineteen blocks were made and then the block platform had as many blocks on it as it would hold. The total number of concrete blocks now made for the superstructure of the piers is 1,140.

8. *Quarries.*—Although there has been no block-making since 3rd November, a stock of stone from Chinnamapett has been allowed to accumulate in the yard. During the month 775 tons of this stone have been received, making a total quantity supplied from Chinnamapett of nearly 10,000 tons.

9. From Ambathoor 250 tons of large laterite boulders for protective purposes have been received, and 221 tons of ballast for maintaining the railway lines at both piers.

10. *Buildings.*—The locomotive engine-shed is very nearly completed, and the points and crossings are laid in connecting the line through the shed with the principal line in the yard.

11. *South Pier Works.*—At the south pier the Titan was moved out to the extreme end of the bank on the 13th November, and it was set to work at arranging the six ton blocks which had been placed as a protection to the end of the surf bank. On the 19th block setting was commenced, and on the 30th November there had been 30 superstructure blocks successfully and truly set on the rubble base formed by the washed down end of the surf bank.

12. I have marked the place where block setting commences on the south pier with the letter "E." The length of blockwork set from point "E" eastward is 37½ feet. At this pier also better progress would have been made if the weather had been more favorable.

13. *Protective Blocks.*—During the month 84 more of the six ton protective blocks have been made at the south pier, to be ready in case of an emergency. All the stone for these blocks and for forming the bed of the superstructure has been brought from Palaveram and the quarry at the 15th mile.

14. *Beach Railway.*—The beach railway is now in constant work at all hours of the day. Two men with red flags go in advance of the trains, and a hand bell is rung at times on the engine. The line works very satisfactorily and does not interfere in any serious degree with the ordinary traffic on the beach road.

15. *General.*—I have not visited the crates and iron tank during November, and therefore have no fresh information; but, as there has been no important disturbance of the sea, it is probable that there is no alteration in the condition of the sand.

16. On the 26th November the north and south piers were inspected by His Grace the Governor.

17. *Plans, &c.*—This report is accompanied with a plan of the harbour as at present existing, whereon is shown the state of the sand accumulations in the neighbourhood of the two piers. There are likewise elevations of the north and south piers showing the progress made during the month.

No. 87. ORDER THEREON, 8th December 1877, No. 2,017 W.

ORDERED to be recorded.

2. The Superintendent will in future progress reports mention the *total* expenditure to date out of the estimate for the works.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 88. From Major H. W. WOOD, R.E., District Engineer, Vizagapatam, to the Chief Engineer, Public Works Department, Buildings and Roads Branch, dated Camp, Golgondah, 24th November 1877, No. 1,942.

WITH reference to G.O., No. 1,050 W, dated 16th October 1877, I have the honor to request you will be good enough to have the appropriation of Rupees 35 therein made for the work as per margin cancelled, as the Superintendent of Police, Vizagapatam, states that the amount can be met from the balance (Rupees 35) of the allotment* sanctioned in G.O., No. 1,403, dated 24th April 1877, for Police huts at Royaveram.

	RS.
* Construction of a gate, &c., for the compound wall of the Neeliah Chuttrum Station-house ..	215
Deduct transferred to Police huts at Nakkapillai—*vide* G.O., No. 666 W, dated 31st August 1877	180
Balance ...	35

No. 4,255.

REFERRED to the Inspector-General of Police for remarks.

FORT ST. GEORGE,
3rd December 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 88-A. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 6th December 1877, No. 5,410.

WITH reference to your endorsement (herewith returned) of the 3rd instant, No. 4,255, on the Vizagapatam District Engineer's letter, No. 1,942, dated 24th ultimo, to the address of the Chief Engineer, I have the honor to observe that my letter embodied in G.O., No. 1,050, dated 16th October last, Public Works Department, referred to the balance of Rupees 35 set free in the allotment (Rupees 215) previously made for the Royaveram huts, but as sanction has been already accorded† for the appropriation alluded to from the "Provincial Reserve" of 1877-78, I beg to suggest as the best course that the available balance (Rupees 35) be credited to *this head now* instead of cancelling the two Government Orders quoted above.

† *Vide* G.O., No. 1,212 W, dated 24th October 1877, Public Works Department.

No. 89. ORDER THEREON, 8th December 1877, No. 2,018 W.

UNDER the circumstances detailed in the above letters, the sum of Rupees 35, being the balance of the appropriation of Rupees 215 made in G.O., No. 1,403, of 24th April 1877, for six Police huts at Royaveram in the Vizagapatam District, is recredited to the Provincial Reserve of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 90. From Major J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 26th November 1877, No. 473.

THE rains during the past four months have been unprecedently heavy, and the traffic on the high trunk road between Coonoor and Ootacamund has been more than usually great. Consequently the road has been very much cut up to the great annoyance of the traffic. I therefore enclose for sanction and provision of funds an

estimate, amounting to Rupees 14,478, for coating those portions of it which have most suffered with 4 and 3 inches of blue granite metal.

2. The following table gives the rainfall at Ootacamund during four corresponding months of the past nine years :—

Month.	1869.	1870.	1871.	1872	1873	1874.	1875.	1876.	1877.
	INS.	INS.	INS.	INS.	INS.	INS	INS.	INS.	INS.
August	4·50	6·33	5·02	4·20	6 05	2·95	1 98	3·99	4·83
September	1·63	2 04	1 92	10·08	6·42	2·78	4·24	1·50	10·91
October	3·97	10·10	10·45	3·99	7·32	10·24	8·33	1·66	8·13
November	3·28	1·69	13 92	6·93	2·35	2·10	2 30	·26	6·60
Total ...	13·38	20·16	31·31	25 20	22 14	18·07	16·85	7·41	30·47

3. Owing to the famine having prevented grain from being supplied from Mysore to the Wynaad, the Ouchterlony Valley and to Ootacamund during the current year, grain has been carted up to Ootacamund from the Coimbatore side. The traffic has during the past four months been thus quite double what it is during the maximum period of an ordinary year.

4. The above two facts fully account for the present bad state of about a half this trunk road.

5. The annual repair allowance is Rupees 275 per mile. If the whole of this sum was expended on metalling it would provide 73⅓ cubic yards per mile, or a layer three-quarters of an inch thick for a width of only 6 feet. The wear of roads in India is calculated at one cubic yard of metal per mile for each cart that passes as a daily average over the road. The daily average during the past four months has been, I believe, at least 300.

6. At all events this road has for several years past received our constant and careful attention. But it has never been in such a state of disrepair as it is now.

No. 91. ORDER THEREON, 8th December 1877, No. 2,023 W.

THE estimate amounting to Rupees 14,478 is sanctioned for execution on emergency. As a specific appropriation of funds cannot be made, the charge must appear as an excess in the accounts of Provincial Funds against which it will be debited.

2. His Grace the Governor in Council is inclined to think that it would be more equitable in principle if all the main ghaut lines of communication were maintained from Provincial Funds, no Local Fund Boards, through whose circles they pass, being in a position to allot sufficient funds for keeping them in a proper state of repair. Before coming to a decision on the point however His Grace the Governor in Council would be glad to be furnished with a statement showing the receipts and charges which now appear in the Local Fund Accounts on the roads in question. This information the Board of Revenue will furnish through the Financial Department.

3. This sanction has been registered as Provincial No. 238 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 92. From Major J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 27th November 1877, No. 472.

THE late heavy rains have, I regret to say, caused very serious cracks in the solid earth on the south side of the highest portion of the Elk Hill Cutting at the

entrance into Ootacamund from the Coonoor side. The cracks in the earth have extended across the south abutment of the aqueduct, which supplies the south of Ootacamund with water. The earth cracks are numerous and large, and cover a large area of ground. The roadway in the cutting has been forced up irregularly about a yard in height, and the south side of the cutting within the cracks has slipped down without falling on to the road about one foot.

2. I have as a precautionary measure taken down the southernmost bay of the aqueduct (which has 3 spans of about 40 feet each), punned and filled in all the smaller cracks in the earth, and turned the catch drain away from the cracks.

3. I will submit detailed estimates in a few weeks. In the meanwhile I solicit sanction for the employment of all the available prisoners here upon the work of removing the earth which has cracked, and which must eventually (sooner or later) fall down on to the road entirely blocking it up. The prisoners can be spared from Government House. When the road is blocked traffic will have to go round by the upper Lawrence Asylum road to Bishopsdowns, Awdry House, and so into the bazaar.

4. The cutting cannot be now left very long as it is. If it does not fall in sooner, the cracked earth will certainly give way during next year's monsoon. Then the winds are so strong and cold in the cutting that it will be difficult, if not impossible, to get any one to work there.

5. The slack season between this and next May is the most convenient to the public to get the work done.

No. 93. Order thereon, 8th December 1877, No. 2,024 W.

All available convict labor should be employed on the work. The necessary orders will be issued in the Judicial Department as regards prisoners not already under the District Engineer's orders and available for this work.

2. As regards the convicts employed on Government House, the Governor in Council relies on the District Engineer's statement that no delay to the work, including the garden, will be caused by their withdrawal. Should any delay be anticipated the convicts must not be removed, free labor being employed instead. Should the convicts be employed on the cutting the District Engineer will take the greatest care that every possible precaution is taken to avoid accident by sudden slips, &c.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 94. From Major J. BEATTY, R.E., Officiating Superintending Engineer, Godavery District, to the Chief Engineer, Public Works Department, dated Camp at Dowlaishweram, 1st December 1877, No. 2,823.

With reference to G.O., No. 1,226, of 10th April 1877, I have the honor to forward herewith copy of the judgment of the Subordinate Judge of Cocanada in the suit preferred against Mr. Larminie by P. Malliah; also two letters* from the Acting Supervisor in charge of the Range, and to request permission to appeal to the Civil Court.

1 Copy of Judgment.
1 Subbiah Naidu's letter No. 160 of 22nd October 1877.
1 Do. No. 184 of 28th November 1877.

*No. 160 of 22nd October and No. 184 of 28th November 1877.

2. As the time within which notice of appeal can be given is very short, I beg that you will be so good as to give me a reply by telegram as early as you conveniently can.

3. I shall also be obliged by your obtaining sanction for the payment of the Pleader's bill Rupees 155-7-9.

No. 95. ORDER THEREON, 8th December 1877, No. 2,026 W.

ORDERED that the following telegram be sent to the Superintending Engineer, Godavery:—

"Proposed appeal, Malliah *versus* Larminie, authorised."

2. The payment of the Pleader's bill for Rupees 155-7-9 is sanctioned.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper:—

No. 96. From J. O'SHAUGHNESSY, Esq., District Engineer, Nellore, to the Chief Engineer, Public Works Department, dated Nellore, 5th December 1877, No. 3,128.

I HAVE the honor to report that my office was entered on the night of the 21st ultimo, the cash-chest broken open, and a sum of Rupees 115-13-3 in the Head Clerk's charge for contingent expenses was robbed.

2. I was on circuit at the time, and I beg to forward copy of the Head Clerk's report to me on the subject.

3. The case is in the hands of the Police, but the result of the investigations is not yet known.

COPY of the report from the Head Clerk of the District Engineer's Office, Nellore, to the District Engineer, Nellore, dated 22nd November 1877.

I RESPECTFULLY beg to report that, on the night of the 21st, the cash-chest of our office was forced open and the contents, Rupees 115-13-3, were stolen. We had 15 Rupees and odd on the 19th, and we received 100 Rupees from Lieutenant Henderson, R.E., on the 20th, according to our requisition, which made the balance Rupees 115-13-3. I got the office outer door locked and carried the key with me at about 7 P.M. of the 21st.

2. To my astonishment, on the morning of the 22nd, when the office opened at about 10 A.M., I found the cash-chest was opened and the contents missing.

3. I immediately gave notice to the Police Inspector, who came here and investigated the case. During the investigation it was found out that there has been a duplicate or fitting key of the office outer door in the workshop. The instrument with which the box was opened is found.

4. The store peons who slept on the night of the 21st are one Gurappa and Yanady Subbadu. They have been suspected and kept into custody. Their houses as well as others of suspicious characters are being searched, but nothing to this moment is found.

5. I beg that you will kindly order the Southern Division Officer to make me an advance of 50 Rupees for contingent charges.

6. The robber must have entered the room through the door the peons were sleeping, just near the entrance door. The peons say that they do not know anything about the robbery; it is impossible for any man or stranger to enter the room without the knowledge of the store peons. I shall inform you further particulars of the case to-morrow.

No. 97. ORDER THEREON, 10th December 1877, No. 2,028 W.

FURTHER report will be awaited by the Government.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 98. From W. S. HARINGTON, Esq., District Engineer, Madura, to the Under Secretary to Government, Public Works Department, dated Madura, 1st December 1877, No. 233.

One copy of a docket from the Pereacolum Sub-divisional Officer No. 436, dated 13th November 1877, with a copy of its two enclosures.

One copy of this office endorsement No. 2,205, dated 28th November 1877, on G.O. No. 1,762 W, dated 22nd idem.

With reference to G.O. No. 1,762 W, dated 22nd ultimo, I have the honor to forward for your information copy of my instructions thereon to Mr. Montserratt. I understand from that officer that serious damages were caused to the Ghaut works by the heavy rain of the 6th ultimo. I regret that I have been prevented from going there by the recent rains and floods and the press of other work. I shall visit certainly the ghaut, &c., early this month, when a full report of its state will be made and an estimate submitted for the necessary emergent repairs.

No. 99. Order thereon, 10th December 1877, No. 2,029 W.

Orders* have already been given for utilizing budget funds on the repair of damage to the Goodalore Ghaut. A report on the full extent of the damage will be awaited.

* G.O. No. 1,762 W, dated 22nd November 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 100. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Camp, Cuddalore, 3rd November 1877, No. 170.

Three plans.
„ estimates.
„ specifications.
Two site plans.

I have the honor to submit, for the sanction of Government, estimates accompanied by plans and specifications for the undermentioned Police Buildings proposed by the Police Department to be carried out by the Department Public Works in the ensuing year :—

	RS.
Tindivanum Division.	
1. Constructing a 4th-class Station at Kalianur, Tindivanum Taluq, Estimate ...	1,067
Cuddalore Division.	
2. Constructing a 4th-class Station at Muttathur, Villapuram Taluq, Estimate ...	1,047
Virdachellum Division.	
3. Constructing four Huts at Pinnalur, Chillambram Taluq, Estimate ...	1,440
Total ...	3,554

2. The estimates have been prepared at the request of the Superintendent, and they have met with the approval of the Inspector-General. The plan of the huts has been prepared according to the suggestion of the Inspector-General, as directed in your No. 1,509, of the 7th June 1877 ; the design for the stations is the standard one.

3. In 1871-72 a station was built at Kalianur at a cost of Rupees 390 on the sanction accorded in G.O., No. 529, dated 23rd February 1871. This building has

been abandoned as it is not worth repairing. The causes of the failure of this building are two: 1st, the site is bad, being close to a square tank which is much higher in level and keeps the ground always a swamp; 2nd, the building is constructed of burnt brick in clay for foundations and sun dried bricks in clay for walls. These walls had consequently crumbled away, and very little of the roofing materials is good. Another site for the new station has been selected on the opposite side of the road to the present station; this is the only building site available. It is however proposed to raise the ground, for which a sum of Rupees 60 has been now included in the estimate.

4. The site plan for the huts at Pinnalur will be forwarded on its receipt from the Superintendent.

No. 101. ORDER THEREON, 10th December 1877, No. 2,030 W.

THE plans and estimates for the undermentioned Police buildings are sanctioned :—

	RS.		
1. Police Station at Kalianur	1,067	No. 231	B of 1877-78.
2. Do. do. at Muttathur	1,047	„ 232	
3. Four Huts at Pinnalur	1,440	„ 233	
Total ...	3,554		

2. The work will be carried out from the provision for Police works to be made in the Public Works Budget for 1878-79.

3. This sanction has been registered as Provincial and numbered as shown above.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 102. From Captain A. AWDRY, R.E., Acting District Engineer, Coimbatore, to the Chief Engineer, Public Works Department, dated Coimbatore, 5th December 1877, No. 157 CI.

PENDING notification in the *Fort St. George Gazette* of the date of appointment, the Examiner of Public Works Accounts has only provisionally passed the salary of some of the Overseers who were appointed for employment on Famine Relief Works under paragraph 9 of G.O., No. 801 W, dated 28th September 1877, and whose names were reported in the list (No. 4) of subordinate appointments made by me. I have therefore the honor to request that the date of appointment of the undermentioned Overseers be notified in the Gazette to enable the Examiner to pass their salaries finally :—

Names.	Rank.	Date of Appointment or assuming dates.	Remarks.
1. Mr. E. Mahony ...	Temporary Overseer, 3rd Grade.	20th September 1877.	G.O., No. 630 W, of 24th August 1877.
2. R. Soondram Iyer ...	Do. do. do.	17th October 1877.	
3. Mr. Saxby	Do. do. do.	15th „ „	G.O., No. 1,410 W, of 2nd November 1877.
4. Mr. J. M. Brito ...	Do. 3rd do.	21st „ „	G.O., No. 2,703, of 8th November 1877.
5. Corporal B. Daly ...	Do. 1st do.	26th „ „	Reported in the District Engineer's form (No. 4), dated 4th December 1877.

No. 103. Order thereon, 10th December 1877, No. 2,031 W.

The Government have no intention of notifying temporary appointments such as those in question in the *Fort St. George Gazette.*

2. The Examiner will finally pass the pay of the Overseers mentioned, accepting the dates of appointment as furnished by the District Engineer. And he will do the same in all like cases.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 104. From Colonel P. O'CONNELL, R.E., Superintending Engineer, Chingleput, to the Chief Engineer, Public Works Department, dated Camp, Red Hills, 4th December 1877, No. 3,668.

In reference to this office letter No. 3,093, dated 7th December 1876, reporting the issue of the appeal filed in suit No. 256 of 1874, I have the honor to inform you that the Sub-Engineer in charge of No. 3 Range has just submitted a claim made by the Government Vakeel of Rupees 1-0-11, being cost of stamp and copyist fees incurred by him in connection with the appeal in question, and request that sanction may be obtained to the same.

No. 105. Order thereon, 10th December 1877, No. 2,032 W.

Sanctioned.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 106. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 10th December 1877, No. 2,033 W.

Sir,—I am directed to acknowledge the receipt of Public Works Circulars Nos. 74, 76, and 83 of 1876, prescribing a new classification of Public Works Expenditure, and with reference thereto, to remark that it is a matter of some regret to His Excellency the Governor in Council that these Public Works Circulars were not accompanied by a synoptical table bringing together as a whole, and showing in all detail, the new system of classification proposed under the various Funds.

2. Such a synopsis would doubtless have simplified this very complicated subject, and would probably have explained some points in connection with this classification, on which at present some further detailed information seems to be required.

3. In Appendix A to this letter will be found a synopsis of the classification (down to main heads) at present existing in this Presidency as compared with the revised classification now proposed by the Government of India.

The principal difference between the two systems of classification is that in the system obtaining in Madras, '*Works*,' '*Repairs*,' '*Establishment*,' '*Tools and Plant*,' &c., &c., are *primary* sub-divisions under every Fund; the description of work or

repair being in each case the secondary sub-division. Precisely the same system of classification, as far as applicable, is carried out for each Fund; in order to avoid any ambiguity or doubt in the meaning of such technical terms as '*Class*,' '*Main head*,' &c., &c.

4. No similar principle can however be recognised as underlying the basis of the classification proposed by the Government of India. Under the Fund '*Irrigation*' the primary sub-divisions are '*Works*,' '*Establishment*,' '*Tools and Plant*,' &c., &c., exactly corresponding to the primary sub-divisions in the Madras system :—under the Fund '*Provincial*,' these same sub-divisions are primary and partly secondary :— while under '*Imperial*,' they are partly secondary and partly tertiary.

5. But in making these observations I am to say that the classification proposed by the Government of India under the several Funds, and more particularly under '*Imperial*' '*Other Services*,' in the absence of any synoptical table, is not altogether understood.

6. Appendix B to this letter compares the present and proposed classification of the expenditure on Military Works. The proposed classification, it will be observed, is considerably more elaborate than that obtaining in Madras ; and it may be remarked that if the classification proposed by the Government of India is correctly exhibited in this appendix, there would appear to be two orders of sub-classification inserted between the '*Head*' and the '*Sub-head*' to which no name has been given.

7. With regard to these Circulars generally, I am to remark that a classification simply of expenditure, however elaborate it may be, is objectionable only so far as it increases clerical labor, provided it is based on existing facts, and deals with the units in which expenditure is naturally accounted for, without requiring those units to be still further sub-divided on some empirical and arbitrary basis. Such a classification, however complex, begins and ends in the books of the Examiner, Public Works Accounts.

8. But when classification affects not only the statistics of expenditure, but also the supply of funds, and becomes closely involved with the rules which limit the powers of the Local Government and other authorities in dealing with the grants placed at their disposal, the simplest classification produces inconvenience owing to the funds granted for one sub-division not being available for any other purpose, and this inconvenience increases so rapidly with the complexity of the classification that it may soon amount to a serious evil by hampering the whole administration in their efforts to develop the country by the rapid prosecution of public works.

9. To illustrate the effect of the new classification, as adopted in the pattern budget estimates received from the Government of India, it may be observed that in the former classification, '*Original Works*,' '*Repairs*,' '*Establishment*,' '*Tools and Plant*,' &c., were the primary sub-divisions of the grant under '*Imperial, Other Services*,' and within any one of these primary sub-divisions, but not between any two of them, the Local Government have hitherto possessed the power of making transfers.

10. But in the new classification adopted in the pattern form of budget estimates, '*Civil Buildings*,' '*Communications*' and '*Miscellaneous Public Improvement*' are treated as primary, and '*Original Works*,' '*Repairs*' '*Establishment*' &c., &c., as secondary sub-divisions. The regulations contained in the Public Works Code forbidding transfers by the Local Government between '*Original Works*,' '*Repairs*,' &c., the new arrangement seems by implication to withdraw from the Local Government the power to transfer funds under, say, '*Original Works*' from '*Communications*' to '*Civil Buildings*' or from '*Miscellaneous Public Improvement*' to '*Communications*.' I am to inquire whether this is intended, for the Madras Government would deprecate any such restriction.

11. In conclusion, I am to say that His Excellency the Governor in Council wishes to defer the introduction of this new classification until the receipt from the Government of India of a synoptical table showing all details of the classification under each Fund, and until the new classification has been throughly co-ordinated with the existing rules which limit the powers of the Local Authorities in dealing with the grants placed at their disposal.

APPENDIX A.

SYNOPSIS OF PRESENT AND PROPOSED CLASSIFICATION.

Present.

Irrigation.	Imperial.	Provincial.	Local.
CLASS. *Main-head.* WORKS. *Head Works.* *Main Canals and Branches, &c., &c.* ESTABLISHMENT. TOOLS AND PLANT. SUSPENSE ACCOUNTS. PROFIT AND LOSS. RECEIPTS ON CAPITAL ACCOUNT. CHARGES NOT DEBITABLE TO BUDGET. INTEREST.	CLASS. *Main-head.* ORIGINAL WORKS. *Military.* *Other Services.* REPAIRS. *Military.* *Other Services.* ESTABLISHMENT. TOOLS AND PLANT. SUSPENSE ACCOUNTS. PROFIT AND LOSS.	CLASS. *Main-head.* ORIGINAL WORKS. *Civil Buildings.* *Communications.* *Miscellaneous Public Improvements.* REPAIRS. *Civil Buildings.* *Communications.* *Miscellaneous Public Improvements.* ESTABLISHMENT. TOOLS AND PLANT. SUSPENSE ACCOUNTS. PROFIT AND LOSS.	CLASS. *Main-head.* ORIGINAL WORKS. *Civil Buildings.* *Communications.* *Miscellaneous Public Improvements.* REPAIRS. *Civil Buildings.* *Communications.* *Miscellaneous Public Improvements.* ESTABLISHMENT. TOOLS AND PLANT. SUSPENSE ACCOUNTS. PROFIT AND LOSS.

Proposed by Government of India.

CLASS. *Main-head.* WORKS. *Head Works.* *Main Canals and Branches, &c., &c.* ESTABLISHMENT. TOOLS AND PLANT. SUSPENSE ACCOUNTS. PROFIT AND LOSS. RECEIPTS ON CAPITAL ACCOUNT. CHARGES NOT DEBITABLE TO BUDGET. INTEREST.	CLASS. *Main-head.* *Head.* MILITARY. *Original Works.* *Repairs.* *Establishment.* *Tools and Plant.* *Barrack Department.* OTHER SERVICES. *Civil Buildings.* Works. Repairs. *Communications.* Works. Repairs. *Miscellaneous Public Improvements.* Works. Repairs. *Establishment.* *Tools and Plant.* *Suspense Accounts.*	CLASS. *Main-head.* CIVIL BUILDINGS. *Original Works.* *Repairs.* COMMUNICATIONS. *Original Works.* *Repairs.* MISCELLANEOUS PUBLIC IMPROVENTS. *Original Works.* *Repairs.* ESTABLISHMENT. TOOLS AND PLANT. SUSPENSE ACCOUNTS. PROFIT AND LOSS.	CLASS. *Main-head.* Details not given; to be generally the same as Provincial.

APPENDIX B.

EXPENDITURE ON MILITARY WORKS.

Classification in force in Madras.				Classification proposed by the Government of India.				
Fund.	*Class.*	*Main-head.*	*Sub-head.*	*Fund.*	*Class.*	*Main-head.*	*Head.*	*Sub-head.*
Ordinary.	Original Works.	Military.	Fortifications. Military Buildings. (1) Accommodation for European Infantry. (2) ,, for ,, Cavalry. (3) ,, for ,, Artillery. (4) ,, for Native Infantry. (5) ,, for ,, Cavalry. (6) ,, for general purposes. (7) Quarters for officers. (8) Buildings for Staff purposes. (9) Commissariat buildings. (10) Ordnance buildings. (11) Rest-houses. (12) Miscellaneous. Military Roads. (1) Cantonment roads. (2) Other roads. Miscellaneous—Military.	Imperial.	Military.	Original Works.	1.	Buildings for accommodation of troops. (a) Buildings for European Troops in the plains. (b) European Infantry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. (b) European Cavalry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. (b) European Artillery. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. (b) European Sappers and Miners. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. (a) Buildings for officers in the plains. (b) European Infantry. (1) Officers' quarters. (2) Mess-houses. (b) European Cavalry. (1) Officers' quarters. (2) Mess-houses. (b) European Artillery. (1) Officers' quarters. (2) Mess-houses. (b) European Sappers and Miners. (1) Officers' quarters. (2) Mess-houses. (a) Buildings for European Troops in the hills. (b) European Infantry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do.

(b) European Cavalry.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(b) European Artillery.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(b) European Sappers and Miners.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(a) Buildings for officers in the hills.
(b) European Infantry.
 (1) Officers' quarters.
 (2) Mess-houses.
(b) European Cavalry.
 (1) Officers' quarters.
 (2) Mess-houses.
(b) European Artillery.
 (1) Officers' quarters.
 (2) Mess-houses.
(b) European Sappers and Miners.
 (1) Officers' quarters.
 (2) Mess-houses.
(a) Temporary accommodation for European Troops in the plains.
(b) European Infantry.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(b) European Cavalry.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(b) European Artillery.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(b) European Sappers and Miners.
 (1) Barracks and out-offices for single men.
 (2) Do. do. for married men.
 (3) Hospital accommodation.
 (4) Auxiliary do.
(a) Temporary accommodation for officers in the plains.
European Infantry.
 (1) Officers' quarters.
 (2) Mess-houses.

For the two orders of Sub-classification (a) and (b) inserted between the Head and the Sub-head no name has apparently been given.

EXPENDITURE ON MILITARY WORKS—(*Continued*).

CLASSIFICATION IN FORCE IN MADRAS.				CLASSIFICATION PROPOSED BY THE GOVERNMENT OF INDIA.			
Fund.	*Class.*	*Main-head.*	*Sub-head.*	*Fund.*	*Class.*	*Main-head.*	*Head. Sub-head.*
Ordinary.	Original Works.	Military.		Imperial.	Military.	Original Works.	Temporary accommodation for officers in the plains.
							European Cavalry.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Artillery.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Sappers and Miners.
							(1) Officers' quarters.
							(2) Mess-houses.
							Temporary accommodation for European Troops in the hills.
							European Infantry.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Cavalry.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Artillery.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Sappers and Miners.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
						Doubtful.	Temporary accommodation for officers in the hills.
							European Infantry.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Cavalry.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Artillery.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Sappers and Miners.
							(1) Officers' quarters.
							(2) Mess-houses.

Buildings for Native Troops in the plains.
Native Infantry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Cavalry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Sappers and Miners.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Buildings for Native Troops in the hills.
Native Infantry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Cavalry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Sappers and Miners.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Temporary accommodation for Native Troops in the plains.
Native Infantry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Cavalry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.

EXPENDITURE ON MILITARY WORKS—(*Continued*).

Classification in force in Madras.				Classification proposed by the Government of India.			
Fund.	*Class.*	*Main-head.*	*Sub-head.*	*Fund.*	*Class.*	*Main-head.*	*Head.* *Sub-head.*
Ordinary.	Original Works.	Military.		Imperial.	Military.	Original Works.	
							Temporary accommodation for Native Troops in the plains.
							Native Sappers and Miners.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Temporary accommodation for Native Troops in the hills.
							Native Infantry.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Native Cavalry.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Native Sappers and Miners.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Rest-houses.
							2. Ordnance Works.
							(1) Central Manufacturing Establishment.
							(2) Arsenals and Store-yards.
							(3) Quarters for subordinates.
							3. Commissariat buildings.
							(1) Bakeries.
							(2) Slaughter-yards.
							(3) Store godowns and other buildings.
							(4) Sheds for live stock.
							(5) Quarters for subordinates.
							4. Staff and Miscellaneous.
							5. Stud.
							6. Roads to Hill Stations or Lines of Military Communications.
							7. General Cantonment Works.
							(1) Water-supply.

Repairs.		Fortifications. Military Buildings. (1) Accommodation for European Infantry. (2) Do. do. Cavalry. (3) Do. do. Artillery. (4) Do. Native Infantry. (5) Do. do. Cavalry. (6) Do. general purposes. (7) Quarters for officers. (8) Buildings for staff purposes. (9) Commissariat buildings. (10) Ordnance buildings. (11) Rest-houses. (12) Miscellaneous. Military Roads. (1) Cantonment roads. (2) Other roads. Compensation for rent of quarters. (1) Military Subordinates. (2) Medical do. Rents of buildings for accommodation of troops. Miscellaneous—Military.			Repairs.	(2) Drainage and clearances. (3) Cantonment roads. (4) Plantations. (5) Encamping grounds. (6) Rifle ranges. 8. Fortifications. 9. Public Works Buildings. 10. Dock-yards or Naval Buildings. Buildings for accommodation of troops. 1. Buildings for European Troops in the plains. European Infantry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. European Cavalry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. European Artillery. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. European Sappers and Miners. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. Buildings for officers in the plains. European Infantry. (1) Officers' quarters. (2) Mess-houses. European Cavalry. (1) Officers' quarters. (2) Mess-houses. European Artillery. (1) Officers' quarters. (2) Mess-houses. European Sappers and Miners. (1) Officers' quarters. (2) Mess-houses. Buildings for European Troops in the hills. European Infantry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do. European Cavalry. (1) Barracks and out-offices for single men. (2) Do. do. for married men. (3) Hospital accommodation. (4) Auxiliary do.

EXPENDITURE ON MILITARY WORKS—(*Continued*).

Classification in force in Madras.				Classification proposed by the Government of India.			
Fund.	*Class.*	*Main-head.*	*Sub-head.*	*Fund.*	*Class.*	*Main-head.*	*Head.* *Sub-head.*
Ordinary.	Repairs.	Military.		Imperial.	Military.	Repairs.	Buildings for European Troops in the hills.
							European Artillery.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Sappers and Miners.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							Buildings for officers in the hills.
							European Infantry.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Cavalry.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Artillery.
							(1) Officers' quarters.
							(2) Mess-houses.
							European Sappers and Miners.
							(1) Officers' quarters.
							(2) Mess-houses.
							Temporary accommodation for European Troops in the plains.
							European Infantry.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Cavalry.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Artillery.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.
							European Sappers and Miners.
							(1) Barracks and out-offices for single men.
							(2) Do. do. for married men.
							(3) Hospital accommodation.
							(4) Auxiliary do.

Temporary accommodation for officers in the plains.						
European Infantry.						
(1) Officers' quarters.						
(2) Mess-houses.						
European Cavalry.						
(1) Officers' quarters.						
(2) Mess-houses.						
European Artillery.						
(1) Officers' quarters.						
(2) Mess-houses.						
European Sappers and Miners.						
(1) Officers' quarters.						
(2) Mess-houses.						
Temporary accommodation for European Troops in the hills.						
European Infantry.						
(1) Barracks and out-offices for single men.						
(2) Do. do. for married men.						
(4) Hospital accommodation.						
(5) Auxiliary do.						
European Cavalry.						
(1) Barracks and out-offices for single men.						
(2) Do. do. for married men.						
(3) Hospital accommodation.						
(4) Auxiliary do.						
European Artillery.						
(1) Barracks and out-offices for single men.						
(2) Do. do. for married men.						
(3) Hospital accommodation.						
(4) Auxiliary do.						
European Sappers and Miners.						
(1) Barracks and out-offices for single men.						
(2) Do. do. for married men.						
(3) Hospital accommodation.						
(4) Auxiliary do.						
Temporary accommodation for officers in the hills.	Doubtful ..					
European Infantry.						
(1) Officers' quarters.						
(2) Mess-houses.						
European Cavalry.						
(1) Officers' quarters.						
(2) Mess-houses.						
European Artillery.						
(1) Officers' quarters.						
(2) Mess-houses.						
European Sappers and Miners.						
(1) Officers' quarters.						
(2) Mess-houses.						
Buildings for Native Troops in the plains.						
Native Infantry.						
(1) Lines and out-offices for single men.						
(2) Do. do. for married men.						
(3) Do. do. for commissioned officers.						

EXPENDITURE ON MILITARY WORKS—(*Continued*).

Classification in force in Madras.				Classification proposed by the Government of India.			
Fund.	*Class.*	*Main-head.*	*Sub-head.*	*Fund.*	*Class.*	*Main-head.*	*Head. Sub-head.*
Ordinary.	Repairs.	Military.		Imperial.	Military.	Repairs.	
							Buildings for Native Troops in the plains.
							Native Infantry.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Native Cavalry.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary accommodation.
							Native Sappers and Miners.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Buildings for Native Troops in the hills.
							Native Infantry.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Native Cavalry.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Native Sappers and Miners.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.
							Temporary accommodation for Native Troops in the plains.
							Native Infantry.
							(1) Lines and out-offices for single men.
							(2) Do. do. for married men.
							(3) Do. do. for commissioned officers.
							(4) Hospital accommodation.
							(5) Auxiliary do.

Native Cavalry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Sappers and Miners.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Temporary accommodation for Native Troops in the hills.
Native Infantry.
(1) Lines and out-offices for single men
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Cavalry.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Native Sappers and Miners.
(1) Lines and out-offices for single men.
(2) Do. do. for married men.
(3) Do. do. for commissioned officers.
(4) Hospital accommodation.
(5) Auxiliary do.
Rest-houses.
(1 A.) Rent of buildings for accommodation of subordinates.
(1) European Artillery.
(2) Do. Cavalry.
(3) Do. Infantry.
(4) Do. Sappers and Miners.
(5) Native Cavalry.
(6) Do. Infantry.
(7) Do. Sappers and Miners.
(1 B.) Compensation for inferior or deficit quarters.
(1) European Artillery.
(2) Do. Cavalry.
(3) Do. Infantry.
(4) Do. Sappers and Miners.
(5) Native Cavalry.
(6) Do. Infantry.
(7) Do. Sappers and Miners.
(1 C.) Rent of buildings for accommodation of troops.
(1) European Artillery.
(2) Do. Cavalry.

EXPENDITURE ON MILITARY WORKS—(*Continued*).

Classification in force in Madras.				Cassification proposed by the Government of India.			
Fund.	*Class.*	*Main-head.*	*Sub-head.*	*Fund.*	*Class.*	*Main-head.*	*Head. Sub-head.*
				Imperial.	Military.	Repairs.	
							(1 C.) Rent of buildings for accommodation of troops—
							(3) European Infantry.
							(4) Do. Sappers and Miners.
							(5) Native Infantry.
							(6) Do. Cavalry.
							(7) Do. Sappers and Miners.
							2. Ordnance Works.
							(1) Central manufacturing establishment.
							(2) Arsenals and Store yards
							(3) Quarters for subordinates.
							3. Commissariat Buildings.
							(1) Bakeries.
							(2) Slaughter-yards.
							(3) Store godowns and other buildings.
							(4) Sheds for live stock.
							(5) Quarters for subordinates.
							4. Staff and Miscellaneous.
							5. Stud.
							6. Roads to hill stations or lines of Military communication.
							7. General cantonment works.
							(1) Water-supply.
							(2) Drainage and clearances.
							(3) Cantonment roads.
							(4) Plantations.
							(5) Encamping grounds.
							(6) Rifle ranges.
							(7 A.) Ordinary maintenance charges of cantonment roads.
							(7 B.) Special renewals of metalling to cantonment roads.
							(8) Fortifications.
						Establishment.	(9) Public Works Buildings.
						Tools and Plant.	(10) Dock-yards or Naval Buildings.
						Barrack Department.	Barrack Department (exclusive of Establishment).
	Establishment.						(1) New supplies of Barrack furniture.
	Tools and Plant.						(2) Do. of Hospital do.
	Profit and Loss.						(3) Repairs to Barrack furniture.
							(4) Do. Hospital do.
	Suspense Accounts.					Suspense Accounts.	

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 107. Endorsement of the Chief Secretary to Government, Ecclesiastical Department, dated Fort St. George, 5th December 1877, No. 2,299.

From C. T. LONGLEY, Esq., Collector of Salem, to the Chief Secretary to Government, dated Salem, 1st December 1877, No. 650.

IN the month of April last, the Acting Sub-Collector, Mr. LeFanu, brought to my notice that some tombs of European Officers situated on the right hand side of the road from Royacottah to Kristnaghiri were not enclosed, and suggested the expediency of a wall to protect them. On this I addressed the District Engineer in view to a wall being built. But that officer now writes that as the work is likely to cost about Rupees 800, he cannot under existing orders prepare an estimate and submit to Government without their previous sanction. A copy of the District Engineer's letter is enclosed, and I have the honor to request that Government will be pleased to sanction the work.

From Major J. PENNYCUICK, R.E., District Engineer of Salem, to C. T. LONGLEY, Esq., Collector of Salem, dated Maltoor, 2nd October 1877, No. 278.

WITH reference to your letter No. 239, of the 19th May last, which has only just been brought to my notice, I have the honor to state that the cost of the wall in question will be about Rupees 800; under the orders of Government I am precluded from submitting any estimate for a new work whose cost is likely to exceed Rupees 500 without the previous sanction of Government, which should be applied for in the department concerned.

TRANSFERRED to the Public Works Department for disposal.

(Signed) D. F. CARMICHAEL,
Chief Secretary.

No. 108. ORDER THEREON, 10th December 1877, No. 2,038 W.

THE District Engineer will estimate for the wall in question, and state approximately the alternative cost of a surrounding effective trench.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 109. Circular from the Government of India, Public Works Department, (Account—General,) dated Fort William, 5th December 1877, No. 68 P.W.

Rules for the adjustment of inter-departmental charges.

Read the following :—

NOTE by Lieutenant-Colonel J. J. McLEOD INNES, V.C., R.E., Accountant-General, Public Works Department, on the adjustment of inter-departmental charges,—No. 524 G, dated 31st August 1877.

I HAVE the honor to bring to notice that the question of the adjustment of inter-departmental charges requires settlement in a more precise way than seems to exist at present.

2. The only rule in force that bears on the subject, so far as I am aware, is as follows :—

"In cases where the cost of stores or instruments has already been charged off finally against any Government grant, the value of such stores or instruments will not be charged in the financial accounts to any other Department to which they may be afterwards supplied.

"This rule does not apply to the Military Department, nor to Departments which have to show the profit or loss on their working, such as the Post Office, the Telegraph and Forest Departments, the Mint and the Public Works Workshops, and the Mathematical Instrument Department, which will continue to charge Government in the same way as they charge the public."

3. This rule would seem to me to direct that—

(1)—The Military Department,
(2)—The Post Office,
(3)—The Telegraph Department,
(4)—The Forest Department,
(5)—The Mint,
(6)—All Public Works Workshops,
(7)—The Mathematical Instrument Department,
(8)—All other Departments which have to show profit and loss on their working,

may transfer stores to other Departments and take credit for their value in their normal accounts, which are included in the financial accounts. But from the use of the word Department in the above rulings, and also from orders recently passed by the Financial Department on specific cases, I am under the impression that such adjustments are not meant to be carried out in the case of transfers of stores from one section to another section of the same Department,—from, for instance, one State Railway to another, or from a Railway to an Irrigation work ;—and this impression—*i.e.*, of the desire of the Financial Department to do away with all such adjustments if possible—is specially confirmed by the recent ruling that on a transfer of a barge from the Telegraph Department (though specifically exempted) to the Public Works Department, no charge was to be allowed in accounts.

4. I would wish therefore that it might be definitely decided whether, in the case of any sections of one Department being involved (such as an Irrigation work, or a State Railway that has to show profit and loss, and especially if they are Provincial and have to pay interest and show the full revenue,) their purchases from, or sales to, each other or to other Departments may not be treated exactly as if they were purchases from, or sales to, the public.

And to have this question definitely decided, it will require to be referred to the Financial Department.

RESOLUTION.—The Governor-General in Council is pleased to lay down that the exemption clause, under which the General rule prohibiting charges for transfers of stores does not apply to the Military and certain other specified Departments, is to be extended to those State Railways and Irrigation Works of which the remunerative character has to be shown, and to transfers between Imperial and Provincial Services.

2. But such transfers must be exhibited as drawbacks, *i.e.*, the transferring account must show a reduction from the debit side, and the receiving account a reduction from the credit side, so that net results only may appear, and neither the final receipts nor the final expenditure of State funds be exaggerated.

The Governments of Madras and Bombay, in the Public Works Department, General, Irrigation and Railway Branches.
The Governments of Bengal, North-Western Provinces and Oudh, and Punjab, in the Public Works Department, General and Irrigation Branches.
The Chief Commissioners of the Central Provinces, British Burmah, Mysore and Coorg, and Assam.
The Resident at Hyderabad.
The Agents to the Governor-General for Central India and Rajpootana.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director-General of Telegraphs.
The Inspector-General of Military Works.
The Accountant-General, Public Works Department.
The Directors of State Railways.
The Director of State Railways Stores.
The Director-in-Chief, Indo-European Telegraph.
The Director, Persian Telegraph.
The Deputy Director, Persian Gulf Telegraph.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Lahore and Lucknow.

ORDER.—Ordered, that this Resolution be communicated to the Local Governments, Administrations and Officers marginally noted for information and guidance.

Ordered also, that a copy be forwarded to the Financial Department for information.

(Signed) J. J. McLEOD INNES, Lt.-Col., V.C., R.E.,
Deputy Secy. to the Govt. of India.

To the Secretary to the Government of Madras, Public Works Department, Railway Branch.

No. 110. ORDER THEREON, 12th December 1877, No. 2,062 W.

COMMUNICATED to the Officers concerned for information and guidance.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 111. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Camp, Cuddalore, 26th November 1877, No. 199.

I HAVE the honor to submit, for the sanction of Government, a revised estimate in the form of comparative statement of Rupees 7,730* for the construction of a bungalow and office for the Assistant Superintendent of Police at Trickalore in the Cuddalore Range.

One Comparative Statement.

	RS.
* Bungalow	6,610
Office	1,120

2. In G.O., No. 158, dated 20th March 1875, an estimate of Rupees 6,550 (Rupees 5,620 for bungalow and Rupees 930 for office) was sanctioned ; the work was commenced last year and is now close to completion. An outlay of Rupees 2,673 was incurred up to last year, this year against the reduced grant of Rupees 3,112 Rupees 3,361 have been already spent, or in all Rupees 6,034 have been laid out. It was first intended to finish only the bungalow this year, but in the budget a larger allotment (Rupees 3,600) than anticipated having been made, the office was also put in hand and proceeded with to such an extent that it cannot now without disadvantage be stopped. I request therefore sanction to the excess of Rupees 1,180 (970 for the bungalow and 190 for office) over the original estimate, and for an additional grant of Rupees 1,945 to complete the buildings and to meet the excess outlay already incurred over the current year's allotment.

3. The excess in question has been chiefly in the following items :—

Bungalow.

	RS.
I.—Roofing with palmyrah couples and teak reepers	453
II.—Flooring	43
III.—Doors half pannelled and half venetianed	121
IV.—Door frames to servants' rooms	40
V.—Roofing to kitchen	46
VI.—Well	63
VII.—Sundries and superintendence and other petty excesses ...	224
	990

Office.

VIII.—Brick in chunam	41
IX.—Roofing	45
X.—Doors and windows	94
XI.—Other petty excesses	10
	190
Total excess ...	1,180

I and IX.—Teak reepers for roofing are to be substituted owing to the difficulty in getting suitable and sound palmyrah ones; again, the cost has been increased by charges for cartage of teak and palmyrahs from Cuddalore and Pondicherry, and the very high rate at which palmyrah rafters are now selling.

II, III, IV, V and X.—The rates in the original estimate are low and quite inadequate.

VI.—Excess in well has been due to hardness of ground.

VIII.—Excess due to an error in estimate in calculating foundations.

VII and XI.—The provision for sundries and superintendence was also found inadequate; clearing up ground, levelling compound, and carriage of water (which was not to be obtained near the spot) had to be charged to this item,

I regret that this matter has not been reported before, but it was only at the end of June, when Lieutenant Wiffen left the district, that I was aware of insufficiency of the present estimate and that several items, viz., roofing and doors and windows, had been exceeded.

No. 112. **ORDER THEREON, 13th December 1877, No. 2,068 W.**

UNDER the circumstances explained by the District Engineer, South Arcot, the revised estimate of Rupees 7,730, for constructing a bungalow and office for the Assistant Superintendent of Police at Trikalore, is sanctioned.

2. The Government regret that they have no funds available for appropriation to the work. In G.O., No. 1,158 W, dated 22nd October 1877, the Inspector-General of Police was told that if it was essential to complete the building in the current official year he must propose transfers to meet the excess required.

3. This sanction has been registered as Provincial No. 234 B of 1877-78.

(Signed) F. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 113. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Camp, Porto Novo, 15th November 1877, No. 180.

One Comparative Statement.

I HAVE the honor to request supplemental sanction for Rupees 582 for the work of repairs to the Collector's Cutcherry at Munjacooppum. This work was originally sanctioned in G.O., No. 296, dated 25th February 1875, for Rupees 5,110; this was in G.O., No. 1,472, dated 1st July, increased to Rupees 5,590 as a portion of the Cutcherry was found to require more repair than originally estimated for. The work has been more than two years in hand owing to sufficient funds not being available, and therefore there was nothing done to it from August 1875 to February 1877. The work is now nearly completed.

2. This extra sanction is required in consequence of extra work being found necessary in the Press-room and in Rupees 132 being lost from mortar being prepared but not made use of in 1875, and therefore useless owing to the stoppage of the work. There are differences in the other portions of the estimate, but the increase and decrease are nearly the same.

3. For the excess in the Press-room I forward a comparative statement. The chief items are brick-work and concrete, this is in consequence of it being found that the front retaining wall of the verandah, which has been enclosed, to have had only 1½ feet foundations, this had to be taken up and 3 feet foundation on concrete put down.

4. More plastering than estimated had to be renewed and the rates for doors and windows were not sufficient, the total increase amounting to Rupees 450, which amount together with the Rupees 132, the loss in mortar, total Rupees 582, can be met with from the funds allotted to the district for repairs.

No. 114. ORDER THEREON, 13th December 1877, No. 2,069 W.

THE supplemental estimate of Rupees 582 for repairing the Collector's Cutcherry at Munjacoopum is sanctioned.

2. Funds will be provided by the District Engineer from the source indicated by him in paragraph 4 of the foregoing letter.

3. This sanction has been registered as Provincial No. 235 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Military Works.

Read the following paper :—

No. 115. Endorsement of the District Engineer, Presidency, dated 8th December 1877, No. 5,240.

From J. N. GRAINGER, Esq., General Superintendent of Public Works Workshops and Stores, to Major ROSS THOMPSON, R.E., District Engineer, Presidency, dated Madras, 7th December 1877, No. 2,854.

WITH reference to G.O. No. 1,779 W, dated 26th November 1877, communicated with your endorsement, dated 3rd instant, No. 5,056, requesting me to explain delay in the submission of the bills for the supply of wheels to gates of the Gun-sheds

of Royal Horse Artillery and Field Batteries of Royal Artillery at Bangalore, I have the honor to state that as the Bill Department of this office was fully engaged in the preparation and submission of bills for tools supplied for Famine Relief Works, bills for all other Minor Works were kept in abeyance and are now being submitted. The work under reference was one of these; hence delay in its submission.

SUBMITTED to the Chief Engineer, Public Works Department, with reference to G.O. No. 1,779 W, dated 26th November 1877.

(Signed) ROSS THOMPSON, Major, R.E.,
District Engineer, Presidency.

No. 116. ORDER THEREON, 13th December 1877, No. 2,070 W.

ORDERED to be recorded.

(Signed) E. A. FOORD, Colonel, R.E,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper:—

No. 117. From Captain R. R. E. BROCKMAN, R.E., District Engineer, Tanjore, to the Chief Engineer, Buildings and Roads Branch, dated Camp, Cabistilam, 7th December 1877, No. 2,103.

I HAVE the honor to inform you that the Range Officer reports that much inconvenience is at present felt for want of accommodation for the office of the Taluq Overseer at Sheally, and for the custody of the tools, &c., under his charge. As the old Taluq Cutcherry at Sheally has ceased to be occupied on the construction of the new Cutcherry in 1874, I have requested the Collector to let me know if the building in question is no longer required by the Revenue Department in view to its being adapted as a Store-shed and Overseer's office, and the Collector in his No. 3,933, dated the 1st December 1877, states that he has no objection to the building being accordingly made use of, and has directed its transfer to the Department of Public Works under G.O., No. 157, dated the 29th May 1877. I request, therefore, that the sanction of Government may be obtained for the occupation of the above building as an Overseer's store-shed and office at Sheally, as thereby the Government will be saved the expense of constructing a new building for the purpose.

No. 118. ORDER THEREON, 13th December 1877, No. 2,071 W.

APPROVED.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper:—

No. 119. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Camp at Oolundoorpett, 6th December 1877, No. 209.

I HAVE the honor to report that the Examiner considers it necessary for me to request that Government shall decide on where the temporary head-quarters of Mr.

F. B. Pemberton, Executive Engineer, and Mr. A. Clerke, Assistant Engineer, should be for the months of October, &c.

2. Mr. Pemberton was sent to Trinomalai taluq to investigate the Alathur Project; he started on the 1st October from Cuddalore, arrived at Trinomalai on the 4th, and was at Trinomalai and Malapadoor from the 5th to 23rd, on which date he broke his arm; during that time he made four marches. I thought it right to consider that Cuddalore was his head-quarters (had Mr. Pemberton not broke his arm he would have left Trinomalai taluq as the work was stopped) and allowed him half travelling allowance when halting and full when moving camp, and I request this may be sanctioned.

3. Mr. Clerke has been on Survey duties at Porto-Novo, his work being about six miles south and six miles north; he was there and in camp near from the 7th October to the 24th November, and I allowed him half travelling allowance when halting, making Cuddalore his head-quarters. I suppose it is necessary that this should be sanctioned.

4. Mr. Clerke is now gone to Merkanum. I request to be informed what place should he consider his head-quarters; his work is about five miles north of it and eighteen miles south.

No. 120. ORDER THEREON, 13th December 1877, No. 2,073 W.

As recommended by the District Engineer, Cuddalore will be considered the head-quarters of Messrs. Pemberton and Clerke for the months of October and November, and during the recess after completion of the surveys. During the continuance of the surveys these officers will be held to have no temporary head-quarters in the field, claims to travelling allowance being audited under Government of India Code, Chapter IV, Section iii, paragraph 1, Clause i.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper:—

No. 121. From W. S. HARINGTON, Esq., District Engineer, Madura, to the Chief Engineer for Roads and Buildings, dated Madura, 25th November 1877, No. 216.

I HAVE the honor to submit for the sanction of Government a revised estimate, amounting to Rupees 13,040, for constructing a hand-dredge for employment on the Paumben channel. This estimate is in lieu of that sanctioned in G.O., No. 2,391, of the 7th September 1876. The revision now made does not involve any excess expenditure, but only slight deviations from the sanctioned estimate.

One Revised Estimate.
,, Comparative Statement.

No. 122. ORDER THEREON, 13th December 1877, No. 2,074 W.

THE revised estimate of Rupees 13,040 is sanctioned.

2. It is observed that Rupees 10,868-2-5 have been spent on the work up to the end of October 1877.

3. This sanction has been registered as Provincial No. 236 B, of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings ad Roads.

Civil Works.

Read the following paper :—

No. 123. Proceedings of the Board of Revenue, dated 8th December 1877, Miscellaneous No. 16,720.

From H. J. STOKES, Esq., Acting Collector of Madura, to H. E. STOKES, Esq., Secretary to the Board of Revenue, dated Madura, 23rd November 1877, No. 732.

WITH reference to the Proceedings of the Board, dated 7th February 1877, Miscellaneous No. 1,830, communicating G.O., dated 23rd January, No. 299, Revenue Department, I have the honor to state that no suitable building is procurable here for the Sub-Magistrate's Cutcherry, and I therefore propose, after making over the Mantapam to the Devastanam, to rent it for the Cutcherry at a reasonable rate, and for this I request the sanction of the Board.

THE course proposed is approved; the rent agreed upon should be reported.

2. It does not appear that provision was made for the construction of a new Cutcherry in the Budget for 1877-78, as promised in G.O., dated 7th November 1876, No. 2,988, Department of Public Works.

(A true Copy and Extract.)

(Signed) C. A. GALTON,
Sub-Secretary.

No. 124. ORDER THEREON, 13th December 1877, No. 2,075 W.

THE work in question will be entered in the Budget for 1878-79. Other more pressing calls precluded its entry in the Budget of the current year.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following papers :—

No. 125. From Captain A. AWDRY, R.E., Acting District Engineer, Coimbatore, to the Chief Engineer, Public Works Department, dated Coimbatore, 19th November 1877, No. 145.

I HAVE the honor to inform you that the Executive Engineer in charge of Irrigation Division has applied for permission to purchase a pair of bullocks for use in the chunam-mill for the construction of the Sub-Collector's house at Erode.

2. The hire of bullocks is now very costly, and the feed of them if purchased will not cost much as arrangements have been made with the Revenue authorities for their grazing with the Government bullocks on the grass planted in the compound of the Taluq Cutcherry.

3. I have therefore the honor to request sanction to the purchase as the arrangement is an economical one.

No. 125-A. From the same Officer, dated Coimbatore, 8th December 1877, No. 159 C.I.

WITH reference to your memorandum No. 4,282, of the 4th instant, I have the honor to inform you that the bullocks alluded to in paragraph 2 of my letter No. 145, of 19th November 1877, are those employed in public topes in charge of the Revenue Department, which now graze on the grass planted in the Taluq Cutcherry compound at Erode.

2. Arrangements have been made for the bullocks now proposed to be purchased for the Sub-Collector's house at Erode to graze with those of the public topes.

No. 126. ORDER THEREON, 13th December 1877, No. 2,076 W.

THERE being no funds available with the Government for purchase of the bullocks applied for by the District Engineer, the matter must lie over for the present, unless Captain Awdry can provide funds by transfer.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 127. From E. H. PRINGLE, Esq., District Engineer, South Canara, to the Chief Engineer, Buildings and Roads, dated Camp, Sampaje, 3rd December 1877, No. 61.

IN continuation of my letter, No. 58, dated 9th November 1877, I have the honor to report that I have personally inspected road No. 1 from Mangalore to Coorg *viâ* the Sampaje (Mercara) Ghaut.

2. I am glad to say the dry weather we have had up to yesterday has completely restored the road surface, and there are but few traces left of its recent broken condition. Yesterday, however, rain fell, and to-day there are the usual indications of wide-spread atmospheric disturbance which on this coast at this time of year usually precede several days heavy rain.

3. The main causes of the breaking of the road during this monsoon setting aside the prolonged rains, the heavy traffic, and the want of labor, are the clayen character of the soil in many places and the shutting out of sun and wind by the jungles that overhang the road. Where there are open patches, the road though merely barrelled with the soil of the locality has stood the traffic fairly well.

4. Arrangements have now been made to collect metal before the ensuing monsoon for every section of the road between Sullia and the Coorg frontier that broke up or showed signs of weakness this year, the distance aggregating some 4½ miles.

5. The dearth of labor at the very season when it is chiefly wanted is the great hindrance to work in the country bordering the ghauts. Local laborers are generally in possession of small properties and are exceedingly independent. Labor from the coast will not remain near the ghauts for any length of time, and the high rates up-country coolies receive in Mysore and Coorg Public Works are deterrent to their general employment in Canara.

6. Looking to the great difficulties experienced this year in keeping road No. 1 passable for wheeled traffic, I consider the Divisional Officer entitled to much credit in having succeeded so well as he has done. It is entirely due to his personal exertions that no serious block has occurred.

No. 128. ORDER THEREON, 13th December 1877, No. 2,079 W.

RECORDED in continuation of G.O., No. 1,820 W, dated 27th November 1877. Copies of those orders will be forwarded to the Chief Commissioner of Mysore and Coorg for information.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 129. From the Secretary to the Government of Fort St. George, Public Works Department, to the Chief Commissioner of Mysore and Coorg, dated 13th December 1877, No. 2,080 W.

G.O., No. 1,820 W, dated 27th Nov. 1877.
G.O., No. 2,079 W, dated 13th Dec. 1877.

SIR,—In continuation of my letter of the 15th June 1877, I am directed to forward for information two letters received from the District Engineer, South Canara, containing reports on the state of the approaches to Coorg *viâ* the Sampaje Ghaut.

General.

Account.

Read the following paper :—

No. 130. From Captain L. CONWAY-GORDON, R.E., Examiner of Public Works Accounts, to the Secretary to Government, Public Works Department, General Branch, dated Fort St. George, 7th December 1877, No. 165 W.

WITH reference to G.O., No. 1,816 W, dated 27th November 1877, I have the honor to enclose, for the information of Government, a statement showing the amount of famine expenditure incurred by Public Works as well as Civil Officers and accounted for to this office up to the 30th September 1877, and the amount for which completion reports have been furnished.

2. The Government will observe that, while the expenditure aggregated Rupees 33,47,184, completion reports have been received for Rupees 64,108 only—a comparatively insignificant fraction of the whole outlay.

3. District Engineers should be urged to expedite the submission of these completion reports.

Progress Report of Famine Expenditure on the books of this Office and the amount of the Completion Reports received.

Particulars.	Expenditure on Work and Repairs by Public Works Officers.	Expenditure on Works and Repairs by Civil Officers.	Total Expenditure.	Amount of Completion Reports received.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Expenditure to 30th September 1877.	23,72,979 4 6	9,74,204 10 10	33,47,183 15 4	64,157 14 1

FORT ST. GEORGE,
7th December 1877.

(Signed) L. CONWAY-GORDON, Captain, R.E.,
Examiner of Public Works Accounts.

No. 131. ORDER THEREON, 13th December 1877, No. 2,083 W.

COMMUNICATED to District Engineers in continuation of G.O., No. 1,816 W, of the 27th November.

2. The Examiner will at the end of the present month report the aggregate expenditure as shown by the completion reports which have then been received by him.

3. The urgent necessity for forwarding completion certificates as speedily as possible is particularly impressed upon District Engineers. A strict inquiry will have to be instituted in cases where the delay shall appear at all excessive.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 132. From E. H. PRINGLE, Esq., District Engineer, South Canara, to the Chief Engineer for Roads and Buildings, dated Camp, Sumpaje, 3rd December 1877, No. 62.

Renewing the roof of the out-houses to the Subsidiary Jail at Udipy.

One Plan.
„ Detailed Estimate.
„ Abstract do.
„ Copy of correspondence.

IN submitting the marginally noted estimate for sanction, I have the honor to forward copies of correspondence betwixt the Collector and myself on the subject.

2. There are nine subsidiary jails in the district, and each of them has out-houses on the standard plan, hospital, cook-house, and latrine. Though I have invariably made inquiries when visiting these buildings, I am aware of only one case in which a sub-jail hospital has been used legitimately, that at Upperangudy, where three cases have been treated since the buildings were erected, one only of which was a prisoner. The other two patients were out-siders suffering from dysentery and venereal respectively. At Hossdroog the hospital is used by the Sub-Magistrate as a Cutcherry, when his own Cutcherry is too dark or too hot. The place has never held a patient of any sort. At Cassergode the hospital has on one occasion only been used and that was for a post mortem examination held by the Assistant Apothecary of the Civil Dispensary, the body that of an out-sider. At Beltangady goats and cattle only have used the hospital. At Kundapur the same building is or was in use as a travellers' rest-house. At Buntwal and, if I remember rightly, also at Udipy the hospitals have never been used.

3. The cook-houses are used to a certain extent, but from what I can find out more by out-siders than by the Police or their prisoners.

4. The latrines are, for the reason stated by the Collector, not used at all except in a most irregular way by passers-by, with the natural result of their being anything but agreeable places to inspect.

5. I have thought it right to bring these points prominently to your notice, for there is no doubt the repair of these buildings will in future years be a heavy tax on Provincial Funds. They are now comparatively new, built some six or seven years ago, and therefore have not called for much attention, but as climate and time tell on the timber work they will not prove so inexpensive as they have hitherto been.

6. The question is whether in this district at least such a hitherto useless and costly scheme is worth perpetuating in its entirety, whether the hospital sheds and the latrines might not be entirely dispensed with. The addition to Civil Dispensaries of a Police ward, and the erection of small sheds covering a good trench, the simplest and most sanitary of all latrines, would, I am certain, fully meet the requirements of subsidiary jails.

No. 133. ORDER THEREON, 14th December 1877, No. 2,096 W.

THE attention of the District Engineer is called to the orders of the 13th February 1875, No. 113, intimating that in stations where hospital sheds attached to sub-jails are not required for their intended purpose there is no objection to their being converted, under proper sanction, to any other public purpose. The hospital sheds referred to in this correspondence should be maintained in proper repair.

2. The estimate amounting to Rupees 615 for renewing the roof of the out-houses to the subsidiary jail at Udipy is sanctioned.

3. This sanction has been registered as Provincial No. 237 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Military Works.

Read the following paper :—

No. 134. Proceedings of the Madras Government in the Military Department, dated 6th December 1877, No. 6,745.

ABSTRACT.—Approving and transferring to the Public Works Department, for the early consideration and orders of Government, an estimate for improving the Commissariat godown at Vizagapatam.

No. 135. ORDER THEREON, 14th December 1877, No. 2,097 W.

THE estimate of Rupees 270, as prepared by the Chief Engineer, for improving one block of the Commissariat godown at Vizagapatam is sanctioned, and the amount is appropriated from the Reserve under Military at the disposal of Government for 1877-78.

2. This sanction has been registered as Imperial No. 88 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following papers :—

No. 136. Endorsement of the District Engineer, Presidency, dated 12th December 1877, No. 5,324.

From J. N. GRAINGER, Esq., General Superintendent, Public Works Stores and Workshops, to the District Engineer, Presidency, dated Madras, 11th December 1877, No. 1,106.

IN returning herewith the Packing Accounts of remittance stores per *British India* for Mysore, dated 8th May 1877, I have the honor to request that the attention of Government may be drawn to the remarks of the receiving officer, noted in the Packing Accounts.

SUBMITTED to the Chief Engineer, Public Works Department.

(Signed) W. C. L. BADDELEY, Lieutenant, R.E.,
for District Engineer, Presidency.

No. 136-A. Endorsement of the District Engineer, Presidency, dated 12th Decemb r 1877, No. 5,325.

From J. N. GRAINGER, Esq., General Superintendent, Public Works Stores and Workshops, to the District Engineer, Presidency, dated Madras, 11th December 1877, No. 1,107.

I HAVE the honor to return for transmission to Government the Packing Accounts of Public Works Stores per S.S. *Penguin*.

2. The two drums of oil were received in good condition.

SUBMITTED to the Chief Engineer, Public Works Department.

(Signed) W. C. L. BADDELEY, Lieutenant, R.E.,
for District Engineer, Presidency.

No. 137. ORDER THEREON, 14th December 1877, No. 2,093 W.

ORDERED that the Packing Accounts be forwarded to the Home Government.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 138. From the Secretary to the Government of Fort St. George, Public Works Department, to the Under Secretary of State for India, Public Works Department, dated 14th December 1877, No. 2,099 W.

SIR,—I am directed to retransmit, for submission to the Most Honorable the Secretary of State for India, the original Packing Accounts of Public Works Stores shipped per S.S. *Penguin* for Madras and per *British India* for Mysore.

2. I am to state that the stores received from the S.S. *Penguin* were received correctly and in good order, but that out of fourteen dozen drawing pencils, Faber's B, and B.B., said to have been shipped by the *British India*, only four dozen were received. In the case however of the B.B. pencils only four dozen were indented for.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 139. Endorsement of the Chief Secretary to Government, Financial Department, dated 13th December 1877, No. 2,355.

Proceedings of the Board of Revenue, dated 7th December 1877, Miscellaneous No. 16,637.

From H. ST. A. GOODRICH, Esq., Acting Collector of Vizagapatam, to H. E. STOKES, Esq., Secretary to the Board of Revenue, dated Vizagapatam, 3rd November 1877, No. 1,206.

THE Government in their Order, No. 2,175, dated 23rd August 1877, directed that a sum of Rupees 21,393-12-1 should be provided in the Provincial Budget, Public Works Department, for 1878-79, for payment of compensation due to several land-owners whose lands were taken up by the trunk road. The sum includes the amount of compensation payable for the lands as well as the annual assessment payable on them up to Fasli 1285. As the compensation was not paid to the owners although their lands were actually taken up, the annual assessment of the lands up to date of payment will have to be paid to them in addition to the compensation already sanctioned. The annual assessment payable to the owners for Faslis 1286 and 1287 amounts to Rupees 1,751-10-6. I have therefore the honor to request that you will be so good as to take necessary steps to have the amount, viz., Rupees 1,751-10-6, also provided in the ensuing budget.

SUBMITTED for the orders of Government with reference to the Government Order quoted.

(True Copy and Extract.)

(Signed) H. E. STOKES,
Secretary.

TRANSFERRED to the Public Works Department in view to the amount being provided in the Budget for 1878-79.

(Signed) D. F. CARMICHAEL,
Chief Secretary.

No. 140. ORDER THEREON, 15th December 1877, No. 2,109 W.

COMMUNICATED to the District Engineer, Vizagapatam, in continuation of G.O., No. 38 W, dated 6th September 1877. The requisite provision will be made accordingly.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following papers :—

No. 141. From the District Engineer, Bellary, dated ——, December 1877, No. 2.

No. 141-A. From the Examiner of Public Works Accounts, dated 13th December 1877, Nos. 70 and 71 F-2.

No. 142. ORDER THEREON, 15th December 1877, No. 2,110 W.

THE District Engineer, Bellary, having surrendered Rupees 3,280 from the undermentioned Educational Fund Works, that amount is placed at the disposal of the Financial Department :—

	RS.
1. Taluq School at Adony	2,780
2. Repairs to Educational Buildings in the Bellary District	500
	3,280

2. The appropriation for the Taluq School at Adony is explained by the District Engineer to be surrendered, as there is very little chance of the work being commenced during the current official year under the operation of G.O., No. 3,019, of 28th September 1877, Revenue Department.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 143. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Buildings and Roads, dated Fort St. George, 10th December 1877, No. 5,246.

Repairing Commander-in-Chief's bridge.
Do. St. Andrew's bridge.
Do. Old College do.
Do. Government House bridge.
Do. and whitewashing Civil Engineering College.
Do. Chintaudrepettah bridge.

WITH reference to the remarks of the Examiner of Public Works Accounts and the orders of Government passed thereon in paragraph 17 of G.O. No. 1,785 W, dated 26th November 1877, I have the honor to report that the fact of the estimates for the works marginally noted having been sanctioned on the 13th October 1877, was duly communicated in the return of sanctioned estimates for October 1877, which was forwarded to the Examiner by the due date, viz., the 10th November 1877.

2. As regards the other items referred to in the Government Order, I beg to explain as follow :—

ITEM No. 16.—Sinking puckah brick well at the Lunatic Asylum. Estimate for this work was submitted to Government for sanction on 8th December 1877, No. 5,235.

ITEM No. 18.—Conservancy of the Cooum. The estimate for this work was sanctioned by me on the 3rd December 1877, *vide* G.O. No. 1,922 W, dated 3rd December 1877.

ITEM No. 25.—Erecting scaffolding for repairing the face of the clock of St. Mary's Church, Fort. The estimate has been sanctioned by me on the 8th December 1877.

ITEM No. 27.—Erecting Public Works Stores and Workshop at Seven Wells. Revised estimate and comparative statement was submitted to Government for sanction on 6th December 1877, No. 5,193.

ITEM No. 28.—Repairing walls of several buildings of the Military Female Orphan Asylum. Revised estimate under preparation by the Northern Range Officer; he has been again requested to expedite its submission.

No. 144. ORDER THEREON, 15th December 1877, No. 2,116 W.

ORDERED to be recorded.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 145. Endorsement of the Secretary to Government, Revenue Department, dated Fort St. George, 14th November 1877, No. 2,111.

From W. S. HARINGTON, Esq., District Engineer, Madura, to the Secretary to Government, Public Works Department, Madras dated 6th November 1877, No. 197.

I HAVE the honor to submit, for the sanction of Government, a plan and estimate for Rupees (2,800) two thousand and eight hundred for repairing and improving the beach opposite the flagstaff of the Master Attendant's Office at Paumben.

1 Plan.
1 Estimate with specification.
1 Copy of the Collector's letter with its enclosure.

2. The work being of an emergent nature I have instructed the Assistant Engineer, Madura Range, to commence it at once.

3. I request that you will be good enough to allot the requisite funds at your earliest convenience.

4. The Collector's letter and its enclosure on the subject are herewith forwarded.

No. 3,876.

TRANSFERRED to the Marine Department. No funds are available for the work under Imperial.

(By Order,)

(Signed) W. FAREWELL, Colonel,
Under Secy. to Govt., P.W.D.

FORT ST. GEORGE,
13th November 1877.

REFERRED to the Master Attendant, Madras, for report whether funds for the work can be made available from Port Funds.

(Signed) C. G. MASTER,
Secretary to Government, R.D.

No. 145-A. Endorsement of the Chief Secretary to Government, dated Fort St. George, 21st November 1877, No. 2,149.

From J. H. TAYLOR, Esq., Lieutenant, R.N.R., Master Attendant, Administrative Department, Madras, to the Chief Secretary to Government, Marine Department, Fort St. George, dated Madras, 17th November 1877, No. 8,055.

REFERRING to endorsement No. 2,111, of 14th instant, in the Marine Department, I have the honor to state that no funds are available from Port Funds for improving the beach at Paumben.

2. The Budget grant (Imperial) for the current year for that port is Rs. 1,000, of which Rupees 400 have been already expended, and new warps have been ordered, which will fully absorb the balance remaining.

TRANSFERRED to the Public Works Department, with papers, for disposal.

(Signed) D. F. CARMICHAEL,
Chief Secretary.

No. 145-B. From J. H. TAYLOR, Esq., Lieutenant, R.N.R., Master Attendant, Administrative Department, Madras, to the Secretary to Government, Public Works Department, Fort St. George, dated Madras, 10th December 1877, No. 8,662.

REPLYING to your memorandum, No. 4,316, of 5th instant, I have the honor to remark that it appeared to this department that the application to the Government of India for transfer of the Pilotage collections at Paumben from "Imperial" to "Provincial Services"* was made with the view of enabling the local Government to devote the *whole* of the surplus collections to the development of improvements at that port, and under this view the Light was not included in the Provincial List.

* *Vide* Proceedings of Government, dated 16th May 1873.

2. Should you, however, be of opinion that the maintenance of the Light and its establishment should be debited to Provincial Services, I would suggest a reference to Government in the Financial Department for an authoritative ruling in the matter.

No. 146. ORDER THEREON, 15th December 1877, No. 2,118 W.

THE estimate, amounting to Rupees 2,800, for repairing and improving the beach opposite the Master Attendant's Office at Paumben is sanctioned against Provincial.

2. But there are no funds available for appropriation to the work, the charges on account of which will therefore appear as an excess in the accounts of the current year.

3. The maintenance of the Light and its establishment at the port of Paumben is properly charged to Imperial.

4. This sanction has been registered as Provincial No. 239 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

No. 147. Read the following paper :—

HER MAJESTY'S GOVERNMENT OF INDIA... DR.

To the pay of Survey Establishment employed in the Sub-Division, No. 3 Range, Chingleput District, sanctioned in Superintending Engineer's No. 3,435 of 10th January 1877, and No. 2,521 of 28th September. Estimate Rupees 400.

Name and Rank.	Rate per Day.	Amount.	Total.	Grand Total.	Remarks.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Surveyor V. Basheam, plotting and preparing sections of Sadras Canal, from 1st to 20th October 1877.	1 4 8	25 13 4			Completed sections.
Surveyor V. Basheam, surveying extension, East Coast Canal, S. S. from 21st to 31st October 1877.	1 4 8	14 3 4	40 0 8		Pegged out the line for 2½ miles and travelled 5½ miles to obtain general view of the country. Surveyed 8 miles and 1,100 feet.
Namasivayan, Lascar, from 21st to 31st October.	0 3 1	2 1 11			
Aroonagherry, Lascar, from do. to do.	0 3 1	2 1 11			Entertained under paragraph 2 of G.O., No. 550 W, dated 6th August 1877.
Vengadalam, Lascar, from do. to do.	0 3 1	2 1 11			
Koolandy Nattan, Lascar, from do. to do.	0 3 1	2 1 11			
Beema Nattan, Lascar, from do. to do.	0 3 1	2 1 11			
Abboo Nattan, Lascar, from do. to do.	0 3 1	2 1 11	12 11 6		
Total ..	..	..	..	52 12 2	

SADRAS, (Signed) F. G. B. FOX,
29th November 1877. Assistant Engineer.

No. 3,779.

To the Chief Engineer, Buildings and Roads.

(Signed) P. O'CONNELL, Colonel, R.E.,
12th December 1877. Superintending Engineer, Chingleput.

No. 148. ORDER THEREON, 15th December 1877, No. 2,125 W.

SANCTIONED.

(Signed) E. A. FOORD, Colonel R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 149. From Major J. BEATTY, R.E., Officiating Superintending Engineer, Godavery District, to the Chief Engineer, Public Works Department, dated Camp, Dowlaishweram, 4th December 1877, No. 2,851.

WITH reference to G.O., No. 1,642 W, of 13th November 1877, I have the honor to report the further proceedings in the case of criminal breach of trust by Sub-Overseer Wilkins.

2. That case, as I have already reported, was commttied in the first instance for trial by the Sessions Judge, and came before Mr. Brandt on 6th ultimo.

3. Mr. Brandt was of opinion that according to the Code of Criminal Procedure the prisoner having pleaded that he was a European British subject, the District Court could not try the case, and he accordingly sent it back to the committing

Magistrate, Mr. Kelsall, with an order that he was to send it up for trial by the High Court.

4. This Mr. Kelsall has now done, and as I was summoned as a witness before the District Court, he has bound me over to appear at the High Court on the first day of the next Criminal Sessions of that Court, which, I understand, will be early in February 1878.

5. I have now the honor to request permission to proceed to Madras for that purpose by the last steamer in January 1878, that will bring me to Madras in good time for the Sessions.

No. 150. ORDER THEREON, 17th December 1877, No. 2,132 W.

PERMISSION to proceed to Madras is granted.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 151. From Captain G. T. SKIPWITH, R.E., Assistant Secretary to the Government of India, Public Works Department, (Civil Works—Miscellaneous,) to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 7th December 1877, No. 335 M.

MAJOR THOMASON, R.E., having been specially deputed by the Government of India to proceed to Madras for the purpose of collecting certain professional data and information regarding the Madras Harbour Works in anticipation of the arranged visit of Colonel Sir Andrew Clarke to Madras in January next, I am directed to request that this officer may be afforded any assistance that he may require to enable him to carry out his instructions, copy of which is enclosed for information.

2. Any charges that may be incurred will be subject to future adjustment.

Instructions for guidance of Major Thomason, R.E., regarding Madras Harbour Works.

Major Thomason will proceed to Madras and in connection with the proposed harbour collect as much information and data as possible, and have the same in readiness for me on my arrival at Madras about the middle of January 1878.

As regards the engineering aspects of the question, the main points for his inquiry will be under following heads :—

The general directions, duration and force of the prevailing winds in the Bay of Bengal as affecting the Roadstead of Madras.

Also the tides and currents, especially the local currents.

The silt-bearing qualities of the water in the immediate vicinity of the commenced harbour works.

The direction of the silt deposits, more especially as shown by the deposit on the foreshore resulting from the portions of the piers already constructed, comparing if possible the actual contours of the foreshore with records of what existed previous to the commencement of the works.

The practicability of removing, by means of dredging or otherwise, such deposits of silt which to the detriment of the harbour may occur in or near it.

The effects of the waves and currents on the portions of the piers already constructed.

The determination of the nature of the sea-bed in and near the proposed works as affecting moorings, &c.

To ascertain as far as practicable the varying depths below the surface at which dead water may be looked for.

The probable effects, from a sanitary point of view, of the proposed piers on the sewage from the town discharged into the sea at or near the proposed piers.

The estimation from the results of experience hitherto, of probable excesses or savings in actual construction as compared with the estimates already submitted.

To view the question from a financial stand-point it will be necessary to collect information—

As to the number of ships at present resorting to the harbour, their tonnage, &c.

The present cost of lighterage as compared with probable cost of lading and unlading when a successful harbour shall have been completed.

The probable revenue to be expected from the completed harbour in the form of harbour mooring and wharfage dues.

Inquiries should also be made with a view to determine to what extent the interests of the mercantile community will be affected, and thereby to what extent the cost of the proposed works should be recovered from Port dues, &c., from the Provincial Funds, or be considered a fair charge on the Imperial Revenues.

Nautical opinions and data should be collected.

As to the probable difficulties, to ships under steam or sail, of entering or leaving the proposed harbour.

The probable dangers to the entering and moored ships.

The number of ships that may be safely moored in the harbour ordinarily and in times of emergency.

The possibility of danger to ships already moored from the action of high waves entering the harbour mouth and of wind in cyclones.

No. 152. ORDER THEREON, 17th December 1877, No. 2,133 W.

COMMUNICATED to the Superintendent of the Madras Harbour Works, the District Engineer, Presidency, and the Master Attendant, Administrative Department, who will afford such information to Major Thomason as they may possess on the subject on which he is deputed. The Chairman of the Chamber of Commerce will also be requested to aid Major Thomason in the collection of any commercial statistics.

2. Paragraph 2 of the letter from the Government of India will be communicated to the Examiner of Public Works Accounts for information and guidance.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 153. From H. B. WITERBOTHAM, Esq., Honorary Secretary, Wynaad Planter's Association, to Secretary to Government, Public Works Department, dated Vythery, South Wynaad, 14th November 1877.

I HAVE the honor, by direction of the Committee of this Association, to remind you that we are still without reply to our letter of September 3rd, and to observe that no steps have apparently been taken for completing the new bridge at Kulputty.

2. Transport of crop has commenced unusually early this season, and the inconvenience to cartmen and others who are obliged to use the old structure is such that at one time, after a heavy shower, they declined to take loads.

No. 154. From Captain H. BAILEY, Acting District Engineer, Malabar, to the Chief Engineer, Public Works Department, dated Camp at Luckadie, 4th December 1877, No. 130.

WITH reference to your letter No. 4,131, of the 27th ultimo, I have the honor to state that two of the girders of the bridge have been broken up and put together properly.

2. Owing to the long-continued monsoon, Colonel Kennedy ordered the putting up of the scaffolding for the other span to be deferred till the weather became settled, and even now it is hardly safe to put it up, a shower which occurred yesterday having raised the river 4 feet.

3. Should nothing unforeseen occur the bridge will be completed next month, but I hope to have it open in this, as it can be opened for traffic before the parapet walls are completed.

* * * * *

No. 155. ORDER THEREON, 17th December 1877, No. 2,134 W.

EXTRACT from Captain Bailey's letter will be communicated to the Planter's Association with reference to their Honorary Secretary's letters, dated the 3rd September and the 14th November.

2. The Government rely upon the District Engineer's endeavours to satisfactorily complete the bridge at the very earliest possible date.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper:—

No. 156. From Captain L. CONWAY-GORDON, R.E., Secretary, Public Works Code Committee, to the Secretary to Government, Public Works Department, (General Branch), dated Fort St. George, 15th December 1877, No. 10 P.W.C.

I HAVE the honor to report, for the information of Government, that Chapter II of the Draft Public Works Code, as approved by Government, is now ready for issue to the Department.

No. 157. ORDER THEREON, 17th December 1877, No. 2,135 W.

IN continuation of G.O. No. 658, dated 27th February 1877, the preliminary issue of Chapter II of the Public Works Code is circulated for the general information and guidance of the Public Works Department.

2. Except in regard to paragraphs, which are specially noted as requiring the sanction of the Government of India, the Examiner of Public Works Accounts will conduct the audit of all claims submitted by Officers of the Department in strict accordance with the provisions of this Code.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 158. From the Secretary to the Government of Fort St. George, Public Works Department, General Branch, to the Secretary to the Government of India, Public Works Department, dated 17th December 1877, No. 2,136 W.

SIR,—I am directed to forward, for the information of the Government of India, a copy of Chapters I and II of the Draft Code drawn out for the guidance of the Public Works Department in the Madras Presidency.

2. As stated in the preface, this Draft Code is based on the draft of the Revised Public Works Code of the Government of India, which it follows nearly throughout. The only points in connection with this Draft Code of Regulations which appear to require the orders of the Government of India are the following.

3. Chapter I. I. 7 A gives the Local Government the power of granting two periodic increments of Rupees 50 each to the salaries of those Executive Engineers of the 1st grade, who, although not qualified as Superintending Engineers, are deemed worthy of a further recognition of service in consequence of their efficiency as Executive Engineers.

4. This power has hitherto been retained by the Government of India; but subject to the proviso that the total number of officers, to whom such increments are granted, is not at any time to exceed three, His Grace the Governor in Council would be glad to see the power of granting such increments delegated to the Local Government.

The causes that would prompt a recommendation for the grant of such an increment to the salary of an Executive Engineer, are usually of too personal a description to be properly appreciated except on the spot, and moreover now that, under present arrangements, Imperial Works are charged with a fixed quota on account of Establishment Charges, all increases in the cost of the Public Works Establishment fall on Provincial Funds, and may therefore be properly dealt with by the Local Government.

5. The only other point that requires notice is the extension to this Presidency of the grant of Presidency allowance under the Public Works Code I. I. 16-18 to officers below the 1st grade of Executive Engineers. Although no allowance has yet been granted in this Presidency under the name of Presidency allowance, a very similar allowance under the name of carriage allowance has been granted to nearly all the Executive Public Works Officers stationed at the Presidency; and with a view to carrying out the wishes of the Government of India by assimilating the conditions of service in this Presidency with those elsewhere, His Grace the Governor in Council considers that these sections of the Public Works Code as contained in the Draft Code, should be made applicable to Madras.

6. Copies of the remaining chapters will, as issued, be forwarded to the Government of India for information.

General.

Establishment.

Read the following paper:—

No. 159. From the Examiner of Public Works Accounts, dated 6th December 1877.

ABSTRACT.—Disallowing the salaries of punkah pullers of the Public Works Secretariat for November 1877.

No. 160. ORDER THEREON, 17th December 1877, No. 2,137 W.

THE Examiner will admit charges for punkah pullers in the Public Works Secretariat for the same period during which they are allowed in other departments of the Secretariat, as shown in the statement recorded with G.O., No. 238, dated 22nd February 1869, Public Department.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 161. Endorsement of the Under Secretary to the Government of India, dated Simla, 25th September 1877, No. 158 E.I.

From Colonel F. T. HAIG, R.E., Joint Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch, to the Secretary to the Government of India, Public Works Department, dated Fort William, 12th September 1877, No. 3,172 I.E.

IN forwarding the accompanying petition in original from the Office Establishment of the Balasore Survey Division, which has been ordered to be abolished, together with a descriptive roll of the men by the Executive Engineer received through the Superintending Engineer, South-western Circle, I am directed to say that, if possible, they may be transferred to Madras, as no employment can at present be found for them in this department.

2. I am to request the return of the descriptive roll when done with.

FORWARDED to the Government of Madras, Public Works Department, with request that it will communicate direct with the Government of Bengal if it requires the services of any of the men referred to.

(By Order.)

(Signed) A. B. SAMPSON,
Under Secy. to the Govt. of India.

No. 161-A. From T. D. HARRIS, Esq., District Engineer, Ganjam, to the Chief Engineer, Public Works Department, dated Camp, Berhampore, 17th November 1877, No. 85.

One list.

WITH reference to your circular No. 3,169, dated 11th October 1877, I have the honor to return herewith the list that accompanied the above, received through the District Engineer, Vizagapatam, with his No. 1,822, dated 4th instant, after duly taking a copy of the same, and to inform you that the services of the individuals therein referred to are not for the present required in this district, there being no suitable vacancies.

No. 161-B. From Major H. W. WOOD, R.E., District Engineer, Vizagapatam, to the Chief Engineer, Public Works Department, dated Waltair, 6th December 1877, No. 2,021.

WITH reference to your memorandum No. 4,163, dated 28th November 1877, I have the honor to report that I have already* informed the Superintending Engineer, South-western Circle, Government of Bengal, that I propose to appoint S. Casavaloo Naidoo, whose name is mentioned in the list, as Draftsman in my office on salary Rupees 45 per mensem, and requested that officer to order the man to start for Vizagapatam by steamer, if he wishes to take up the post; but I have received no reply as yet from the Superintending Engineer, South-western Circle.

* In letter, dated 6th November, 1877.

2. I further mentioned in my letter to the Superintending Engineer, South-western Circle, that I require an Acting Head Clerk for my office for six months on a salary of Rupees 35 per mensem, and asked him to let me know if any of the abolished servants qualified for the acting post would take it up.

No. 162. ORDER THEREON, 18th December 1877, No. 2,144 W.

ORDERED that the Government of Bengal be informed.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 163. From the Secretary to the Government of Fort St. George, Public Works Department, to the Secretary to the Government of Bengal, Public Works Department, dated 18th December 1877, No. 2,145 W.

SIR,—In answer to your letter No. 3,172 I.E., dated 12th September 1877, I am directed to state that the list furnished with it of the Balasore Survey Establishment was referred to the District Engineers of Ganjam and Vizagapatam for report whether they required the services of any of the men in question. The District Engineer of Ganjam, as far as he is able to say at present, is not in need of such help. The District Engineer, Vizagapatam, is in communication with the Superintending Engineer of the South-western Circle regarding S. Casavaloo Naidoo whom he wishes to employ.

2. I am to state that this correspondence will be kept in view, and, should an opportunity hereafter arise of employing any others of the Balasore Establishment, application will be made to the Government of Bengal.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 164. Endorsement of the Chief Secretary to Government, Ecclesiastical Department, dated Fort St. George, 13th December 1877, No. 2,369.

From the Venerable C. R. DRURY, Archdeacon of Madras, to the Chief Secretary to Government, dated Madras, 12th December 1877, No. 524.

IN forwarding a letter from the Church Committee at Bangalore, applying to Government for a grant to get 590 square yards of new matting at a cost of Rupees 820, repairing cane-matting Rupees 5, and sundries Rupees 22, and 50 kneeling stools for Rupees 235, I am aware that Government does not undertake to provide matting, (according to G.O., 8th August 1876, No. 200, Churches and Furniture), and therefore I do not recommend this part of the application to be sanctioned. But I observe that appliances to seat the congregation and allow them to kneel in decent comfort are provided by Government, therefore I presume that the 50 kneeling stools, costing Rupees 235, will be allowed.

From the Church Committee, Trinity Church, Bangalore, to the Venerable the Archdeacon of Madras, dated Bangalore, 24th July 1877.

WE have the honor to request that you will ask Government to make a grant for the purpose of covering the floor of Trinity Church with strong matting and procuring kneeling stools, &c. The present matting, which only partially covers the floor, is in a very dilapidated condition and most unsightly. We annex a letter from the District Engineer giving an estimate of the probable cost.

From Rev. G. ENGLISH, Chaplain, to the Venerable the Archdeacon of the Diocese, Madras, dated Bangalore, 5th December 1877.

I AM desired by the Trinity Church Committee to make another application to you with reference to the estimate enclosed for rematting the church, and to ask you kindly to submit the matter to Government at your earliest convenience, for the church has now a disreputable appearance.

The Committee will feel greatly obliged by your securing the sanction of Government without further delay.

TRANSFERRED to the Public Works Department for disposal.

(Signed) D. F. CARMICHAEL,
Chief Secretary to Government.

No. 165. ORDER THEREON, 18th December 1877, No. 2,146 W.

As recommended by the Venerable the Archdeacon the portion of the estimate providing for 50 kneeling stools, at a cost of Rupees 235, is sanctioned. No funds can however at present be granted.

2. This sanction has been registered as Provincial No. 240 B, of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 166. From F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 13th December 1877, No. 65 W.

I HAVE the honor to forward herewith a statement of expenditure on the Madras Harbour Works up to the 30th November 1877.

Outlay on Madras Harbour Works up to 30th November 1877.

Heads of Estimate.	Cost for October 1877.	Cost for November 1877.	Cost to end of November 1877.	Total Cost.	Estimate.	Remarks.
Preliminary Works.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
Detailed Survey ..	86 2 6	93 11 0	3,354 3 8	} 13,925 4 0	5,000	Expenditure on this head must constantly be going on, but the present surveying is hardly a "Preliminary Work."
Marine Survey ..	36 13 10	15 12 0	10,571 0 4			
Railways.						
Rails from England.	206 8 0	..	1,38,403 7 8	} 2,44,891 0 1	1,50,000	
Sleepers	..	..	39,385 7 5			
Formation ..	1,377 10 6	324 9 5	67,102 1 0			
Opening Quarries ..	2 15 0	1 0 0	2,157 14 0	2,157 14 0	10,000	
Preparing Block Ground	1,360 9 5	18 4 3	42,239 10 9	42,239 10 9	65,000	
Jetties	..	..	..	..	45,000	
Land	..	..	..	..	30,000	
Buildings	1,498 4 5	984 7 6	53,361 7 10	53,361 7 10	75,000	
Construction of Piers.						
North Pier.						
Surf Bank	7 0 9	..	1,74,794 2 9	1,74,794 2 9	2,37,180	
Rubble Base	1,821 0 8	848 12 3	39,350 9 8	39,350 9 8	4,82,680	
Extra Rubble ..	..	..	1,770 5 10	1,770 5 10	1,00,000	
Concrete Block setting.	1,612 12 7	1,607 12 7	23,217 0 3	23,217 0 3	3,06,500	
Light-house ..	..	..	..	..	30,000	
South Pier.						
Surf Bank	7,683 11 10	3,082 15 3	63,939 0 6	63,939 0 6	2,37,180	
Rubble Base ..	1,189 0 9	2,769 3 8	18,277 4 7	18,277 4 7	4,82,680	
Extra Rubble ..	..	..	..	..	1,00,000	
Concrete Block setting.	323 11 9	714 6 7	1,280 14 5	1,280 14 5	3,06,500	
Light-house ..	..	..	..	..	30,000	
Concrete Block making for North and South Piers.	21,860 6 7	7,203 7 9	1,86,314 4 9	1,86,314 4 9	20,01,000	
Recovery	..	**6 9 0**	..	..	..	

NOTE.—The items in large type under the name of "recovery" are the results of adjustment of payments already made. The "recovery" is from one head of the estimate to another sub-head.

Outlay on Madras Harbour Works up to 30th November 1877—(Continued).

Heads of Estimate.	Cost for October 1877.	Cost for November 1877.	Cost to end of November 1877.	Total Cost.	Estimate.	Remarks.
Plant.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
Locomotive Engines ..	11 0 0	9 8 5	43,230 11 7	43,230 11 7	60,000	
Rolling Stock ..	82 14 2	234 0 11	11,948 11 8	11,948 11 8	35,000	
Floating Plant ..	68 9 9	0 12 0	1,32,984 9 9	1,32,984 9 9	1,45,000	
Machinery	3,806 13 8	951 10 3	2,46,897 13 2	2,46,897 13 2	1,25,000	
Recovery	..	978 3 6	..	..	..	
Quarry and General Tools.	3,665 3 5	253 0 0	25,535 12 8	25,535 12 8	50,000	
Recovery	..	135 4 0	..	..	..	
Buoys and Beacons ..	..	..	651 15 7	651 15 7	3,000	
Office Furniture ..	387 2 0	17 8 0	3,957 11 10	3,957 11 10	2,000	
Establishment.						
Salaries	2,841 3 5	2,841 8 0	98,630 1 10	1,18,447 5 5	2,45,690	
Office Contingencies ..	6 2 6	121 9 6	1,655 3 2			
Travelling Allowances.	209 10 0	70 0 0	18,070 14 5			
Medical	..	..	91 2 0			
Contingencies at 5 per cent. on Total Estimate.						
Prince of Wales' visit and other Contingencies.	235 10 6	468 3 5	12,306 2 10	20,171 3 7	2,45,690	
Protecting North Beach.	..	..	7,865 0 9			
	50,381 2 0	21,511 7 3	14,69,344 14 8	14,69,344 14 8	..	
Materials at site— Recovery	489 9 7	601 12 10	1,210 6 5	1,210 6 5	..	
	49,891 8 5	20,909 10 5	14,70,555 5 1	14,70,555 5 1	..	

NOTE.—The items in large type under the name of "recovery" are the results of adjustment of payments already made. The "recovery" is from one head of the estimate to another sub-head.

MADRAS,
13th December 1877.

(Signed) F. N. THOROWGOOD,
Supt., Madras Harbour Works.

No. 167. ORDER THEREON, 18th December 1877, No. 2,147 W.

ORDERED to be recorded.

(Signed) E. A. FOODR, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 168. Endorsement of the District Engineer, Presidency, dated 15th December 1877, No. 5,395.

From J. N. GRAINGER, Esq., General Superintendent, Public Works Stores and Workshops, to Major ROSS THOMPSON, R.E., District Engineer, Presidency, dated Madras, 14th December 1877, No. 1,120.

I HAVE the honor to return the Packing Account of Mysore Foreign Fund Stores per S.S. *Duke of Argyll*, dated 21st September 1877, for transmission to Government.

SUBMITTED to the Chief Engineer, Public Works Department.

(Signed) ROSS THOMPSON, Major, R.E.,
District Engineer, Presidency.

No. 169. ORDER THEREON, 18th December 1877, No. 2,148 W.

ORDERED that the Packing Account be forwarded to the Home Government.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 170. From the Secretary to the Government of Fort St. George, Public Works Department, to the Under Secretary of State for India, dated 18th December 1877, No. 2,149 W.

SIR,—I am directed to retransmit, for submission to the Most Honorable the Secretary of State for India, the original Packing Account of Public Works Stores shipped per S.S. *Duke of Argyll* for Mysore, and to state that the stores have been received correctly and in good order.

Buildings and Roads.

Civil Works.

Read again :—

No. 171.	Proceedings of the Madras Govt., dated				17th October 1876,	No. 2,776.		
No. 171-A.	„	„	„	„	22nd January 1877,	„	200.	
No. 171-B.	„	„	„	„	21st March	„	„	300.
No. 171-C.	„	„	„	„	22nd October	„	„	431 I

Read also the following :—

No. 171-D. Proceedings of the Madras Government in the Revenue Department, dated 19th November 1877, No. 3,265.

ABSTRACT.—*Junction Canal to unite the Cocanada and Coringa Canals.*—Resolving to communicate to the Public Works Department Proceedings of the Board of Revenue relating to the — for consideration and orders.

No. 172. ORDER THEREON, 18th December 1877, No. 2,150 W.

FROM the above Proceedings it will be seen that the cost of the proposed Junction Canal from the Cocanada to the Coringa Canals, including the connection with the Penuguduru Salt-pans, amounts to Rupees 1,89,450 for works, and that the interests involved in its construction are.

1st.—Imperial, as regards facilitating access to the salt-pans and an increase of salt sales. Although it is stated that it is not practicable to estimate directly the effect which improved communication would have, it is shown that the present communication by the Cholangi and Cocanada rivers is very bad and must go on deteriorating, and that the percentage of salt taken away by boats has decreased from 64 in 1871-72 to 44·1 in 1875-76. The part of the work in which the salt trade is more particularly interested is that connecting the salt-pans with the Cocanada Canal, the estimate for which portion amounts to Rupees 56,813. The Revenue Department has expressed the opinion that the work is clearly a desirable one if money can be spared from Imperial Funds.

Collector's letter, No. 141, in Proceedings Madras Government, Revenue Department, 4th October 1877, No. 3,078.

2nd.—Local Funds, in respect to the communications of this part of the district, and the Local Fund Board has recognized the usefulness of the scheme by offering to contribute Rupees 39,900 including all direct charges.

Proceedings Madras Government, Revenue Department, 19th November 1877, No. 3,265.

3rd.—It is proposed to contribute from the Canal and Ferry Funds, which at present have a large surplus, a sum of Rupees 89,545. This sum includes all direct charges.

Proceedings Madras Government, Revenue Department, 19th November 1877, No. 3,265.

4th.—The construction of the canal will effect a small saving in the cost of distributaries of the Cocanada and Coringa Canals, this saving being estimated at Rupees 2,400.

2. It appears therefore that if a contribution of Imperial Funds can be made to the extent in which the Salt Department is more particularly interested the scheme can be carried out, and the several contributions will be as below indicated :—

Funds.	Works.	Establishment.	Tools and Plant.	Total.
	RS.	RS.	RS.	RS.
Imperial Salt	...	...	...	56,813
Local	30,000	7,500	2,400	39,900
Special	67,327	16,832	5,386	89,545
Irrigation	2,400	600	192	3,192
Total ...	99,727	24,932	7,978	1,89,450

3. Provision will be made for the work in the several budgets of 1878-79. A sum of Rupees 40,000 will be entered in the outgoing Public Works Budget Estimate of Imperial Funds under Salt.

4. The sanction accorded in G.O., No. 2,776, of 17th October 1876, is now registered as Imperial No. 89 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 173. From W. S. HARINGTON, Esq., District Engineer, Madura, to the Secretary to Government, Public Works Department, dated Madura, 12th December 1877, No. 243.

THE Examiner of Public Works Accounts, Madras, having disallowed the pay of the two temporary lascars employed under Overseer Fonseca for the month of September last, (their employment being authorised by me, as without them he could not travel about the sub-division, which he had to do in company with Mr. Supervisor Prout who relieved him,) I have the honor to request that you will be good enough to obtain the sanction of Government for their pay at Rupees 6 each per mensem from the 10th September to this date inclusive, as I understand that he has given or is ready to give over charge.

No. 174. ORDER THEREON, 18th December 1877, No. 2,151 W.

SANCTIONED; but the proceeding of the District Engineer in authorising the entertainment of the lascars without authority was irregular, and must not be repeated.

2. This sanction has been registered as Provincial No. 66 W of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 175. From Major C. M. MOBERLY, Officiating Under Secretary to the Government of India, Public Works Department, (Account—General,) to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 8th December 1877, Nos. 850—59 A—G.

I AM directed to forward herewith, for information, copy of a statement received from the Director-General of Stores at the India Office, showing particulars of estimate and outlay against Indents received in England up to end of September 1877 for stores for the Public Works and Telegraph Departments.

STATEMENT showing Particulars of Estimate and Outlay against Indents received up to the end of September 1877 for Stores for the Public Works and Telegraph Departments.

Province.	Indent.		Estimated Amount of Payments in England on each Indent including Freight payable in England.†	Actual Expenditure on each Indent to end of previous official year.	Expenditure against each Indent during current official year.			Probable Payment against each Indent.		
	Number.	Date.			To end of previous month.	This month.	Total.	In remainder of 1877-78.	In 187 .	In subsequent years.
			£	£	£	£	£	£	£	£
I—Indents for stores the cost of which is treated as an Ordinary final charge under Public Works in the Home Accounts—										
Bengal	2	7th July 1876.	35	..	..	..	..	35		
	Thomason College Indent. 1	9th Aug. 1845.	235	..	..	..	..	235		
Punjab *	1	18th Jan. 1876.	140	..	51	..	51	89		
		5th Mar. 1877.	370	..	..	..	..	370		
Central Provinces (Warora Colliery) ..	2	28th April 1876.	1,250	560	540	150	690	..		
	1	25th ,, 1877.	100	..	..	..	..	100		
Madras *	Letter. 7	18th Mar. 1875.	445	..	..	..	..	445		
		31st May 1876.	1,085	715	370	..	370	..		
	Telegram.	16th Feb. 1877.	8,490	..	5,899	51	5,950	2,540		
	7	,, ,,	55	..	..	..	..	55		
Bombay	1	21st May ,,	88	..	..	88	88	..		
			12,293	1,275	6,860	289	7,149	3,869		

* The sums marked thus* are the estimated balances to be paid during the season 1877-78 on the Indents to which they relate. Full details of the expenditure on these Indents have already been communicated to the Public Works Department.

† The entries in this column will be corrected from time to time by the result of letting the contracts.

STATEMENT showing Particulars of Estimate and Outlay against Indents, &c.—(*Continued*).

Province.	Indent.		Estimated Amount of Payments in England on each Indent including Freight payable in England. †	Actual Expenditure on each Indent to end of previous official year.	Expenditure against each Indent during current official year.			Probable Payment against each Indent.		
	Number.	Date.			To end of previous month.	This month.	Total.	In remainder of 1877-78.	In 187 .	In subsequent years.
II—Indents for stores the cost of which is treated as a final Extraordinary charge under Irrigation in the Home Accounts—			£	£	£	£	£	£	£	£
Bengal	1	23rd April 1877.	8,250	..	..	..	..	8,250		
Madras *	Letter. 7	18th Mar. 1875.	17	..	..	..	..	17		
*	Letter. 22	29th April 1876.	12	..	1	11	12	..		
		31st May "	700	580	..	..	..	120		
		13th April 1877.	40	..	38	..	38	2		
Bombay	1	Feb. "	47	..	25	17	42	5		
			9,066	580	64	28	92	8,394		
III—Indents for stores the cost of which is treated as a Remittance to India in the Home Accounts—										
Bengal *	186	1st Oct. 1874.	2,845	..	1,158	..	1,158	1,687		
*	190	" 1875.	6,485	..	2,651	175	2,826	3,659		
	Letter. 139	7th Dec. 1876.	18	..	..	..	..	18		
	Letter. 23	14th Feb. 1877.	145	..	..	..	..	145		
	197	1st Oct. 1876.	21,200	..	..	..	..	21,200		
	1	30th Dec. "	160	..	..	..	..	160		
Punjab	1	13th April 1877.	342	..	..	..	..	342		
Central Provinces ..	4	11th Dec. 1876.	325	..	..	..	..	325		
Madras .. *	Letter. 7	18th Mar. 1875.	756	..	..	..	..	756		
*	Telegram.	8th Jan. 1876.	2,385	..	1,044	..	1,044	1,341		
*	Letter. 21	29th April "	3,315	..	3,266	49	3,315	..		
*		13th June "	6,752	5,527	1,225	..	1,225	..		
	3,820	31st May "	3,635	2,750	758	..	758	127		
		9th Feb. 1877.	1,705	..	333	178	511	1,194		
		21st April "	24	..	22	..	22	2		
(Dowlaishweram) ..	..	9th Aug. 1876.	810	..	345	303	648	162		
Bombay	Letter. 35	4th Sept. 1874.	3,180	1,800	40	..	40	1,340		
	1	18th Aug. 1876.	345	..	..	..	..	345		
	4	22nd Sept. "	151	..	151	..	151	..		
	6	18th Dec. "	144	..	136	..	136	8		
	5	11th " "	3,180	..	..	..	..	3,180		
	7	Feb. 1877.	2,505	..	402	189	591	1,914		
			60,407	10,077	11,531	894	12,425	37,905		
IV—Indents for stores for the Indian Telegraph Department—										
Bengal *	1	22nd May 1875.	305	..	75	128	203	102		
*	1	3rd June 1876.	647	..	647	..	647	..		
	2	" "	13,904	..	6,680	5,362	12,042	1,862		
	5	14th Sept. "	1,290	..	75	..	75	1,215		
	3	20th Oct. "	4,005	..	762	802	1,564	2,441		
	4	" "	836	..	170	..	170	666		
	Telegram.	30th Dec. "	3,829	1,970	1,859	..	1,859	..		
	5	8th " "	250	..	..	..	..	250		
	1	29th June 1877.	16,000	..	..	..	..	16,000		
Madras *	1	3rd " 1876.	43	..	43	..	43	..		
	3	20th Oct. "	70	..	11	..	11	59		
	5	8th Dec. "	106	..	..	..	..	106		
	1	29th June 1877.	1,490	..	..	..	..	1,490		

* The sums marked thus* are the estimated balances to be paid during the season 1877-78 on the Indents to which they relate. Full details of the expenditure on these Indents have already been communicated to the Public Works Department.

† The entries in this column will be corrected from time to time by the result of letting the contracts.

STATEMENT showing Particulars of Estimate and Outlay against Indent, &c.—(*Continued*).

Province.	Indent.		Estimated Amount of Payments in England on each Indent including Freight payable in England.	Actual Expenditure on each Indent to end of previous official year.	Expenditure against each Indent during current official year.			Probable Payment against each Indent.		
	Number.	Date.			To end of previous month.	This month.	Total.	In remainder of 1877-78.	In 187 .	In subsequent years.
			£	£	£	£	£	£	£	£
IV—Indent for stores for the Indian Telegraph Department—(*Continued*).										
Bombay	2	3rd June 1876.	3,195	..	..	..	..	3,195		
	3	20th Oct. ,,	115	..	52	..	52	63		
	5	8th Dec. ,,	104	..	..	..	..	104		
	1	29th June 1877.	3,347	..	..	..	..	3,347		
			49,536	1,970	10,374	6,292	16,666	30,900		
V—Indents for stores for the Indo-European Telegraph Department—	C. M.									
(Steam Launch for *Amberwitch*) ..	..	24th April 1877.	378	..	..	..	..	378		
	2 & 3	4th Dec. 1876.	360	..	..	..	..	360		
	66	28th Aug. ,,	2,123	..	..	..	..	2,123		
			2,861	..	..	..	..	2,861		

* The sums marked thus* are the estimated balances to be paid during the season 1877-78 on the Indents to which they relate. Full details of the expenditure on these Indents have already been communicated to the Public Works Department.

† The entries in this column will be corrected from time to time by the result of letting the contracts.

INDIA OFFICE, LONDON,
19th October 1877.

(Signed) C. G. SHAW,
for Director-General of Stores.

No. 176. ORDER THEREON, 18th December 1877, No. 2,152 W.

COMMUNICATED to the officers concerned.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 177. Endorsement of the Chief Secretary to Government, Financial Department, dated Fort St. George, 14th December 1877, No. 2,379.

From A. McC. WEBSTER, Esq., President of the Local Fund Board, Nilgiris, to the Chief Secretary to Government, dated Ootacamund, 6th December 1877, No. 8.

WITH reference to Proceedings of Government, dated 21st September 1877, No. 2,359, I have the honor to forward a copy of extract from the Proceedings of the Coonoor Municipality, dated 14th November 1877, on the subject of repairing the road at Coonoor near Mr. Kirby's gate.

2. The road being one of those of which the Municipal Commissioners have been relieved, *vide* G.O., of 12th June 1877, No. 1,691, Financial Department, the Commissioners do not consider they are liable for damage done to Mr. Kirby's property.

3. I have therefore the honor to suggest that the District Engineer be directed to put the road in order from the allotment in the Public Works Budget for this year. (*Vide* paragraph 3 of G.O., of 5th February 1877, No. 413, Financial.)

TRANSFERRED to the Public Works Department.

(Signed) D. F. CARMICHAEL,
Chief Secretary.

EXTRACT from Minutes of Proceedings of the Municipal Commissioners for the Town of Coonoor, dated 14th November 1877.

Paragraph 6.—Read extract from Local Fund Board's Proceedings regarding damage complained of by Mr. Kirby to the road near his lower gate.

The Municipality do not consider themselves liable for damage done to Mr. Kirby's property in consequence of the bad drainage of a road made by the Local Fund Board and acknowledged by Government, under G.O., No. 1,691, dated 12th June 1877, to be under their charge.

(Signed) C. A. ANDREWS,
Vice-President.

No. 178. ORDER THEREON, 18th December 1877, No. 2,155 W.

COMMUNICATED to the District Engineer, Nilgiris, who will carry out the work with reference to G.O., No. 379 W, dated 7th July 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 179. From J. ARBUTHNOTT, Esq., Assistant Engineer, on Special Duty, to the Chief Engineer, Public Works Department, dated Madura, 1st December 1877, No. 2.

I HAVE the honor to request that the Deputy Collector in charge of the Madura Treasury may be authorised to pay me my salary and allowances, viz., Rupees 600 a month, the same as I should have drawn had I remained in charge of the District Zemindaries.

No. 180. ORDER THEREON, 19th December 1877, No. 2,156 W.

THE necessary orders will be issued in the Revenue Department for disbursement of pay, subject to adjustment hereafter.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 181.	From the District Engr., South Canara,	dated 18th May 1877,	No.	15.
No. 181-A.	From the do. do.	„ 13th Aug. „	„	40.
No. 181-B.	From the Inspector-General of Police,	„ 2nd Nov. „	„	4,910.
No. 181-C.	From the District Engr., South Canara,	„ 10th Dec. „	„	65.

No. 182. ORDER THEREON, 19th December 1877, No. 2,157 W.

HIS GRACE the Governor in Council declines to sanction the more costly designs submitted by the District Engineer. The original plans which have been approved by the Police Department will be carried out, the estimates for which stand as follow- and are sanctioned accordingly :—

	RS.	REGR. NO.	
Police Station-house at Golitattoo	535	241	B of 1877-78.
Do. do. at Panemangalore	535	242	
Three Police Huts at Hosangadi	525	243	

2. This sanction has been registered as Provincial and numbered as shown above.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government P.W.D.

Buildings ad Roads.

Civil Works.

Read the following paper :—

No. 182-A. Endorsement of the Under Secretary to Government, Financial Department, dated 19th December 1877, No. 2,406.

Proceedings of the Board of Revenue, dated 15th December 1877, Miscellaneous No. 17,045.

From G. D. LEMAN, Esq., Collector of the Kistna District, to the Secretary to the Board of Revenue, dated Masulipatam, 12th November 1877, No. 2,533.

REFERRING to G.O., No. 1,335, April 24th, 1877, Financial Department, I have the honor to submit an estimate (Rupees 10) for repairing two road tunnels in the town of Bezwada, and to request that the Rupees 10 wanted may be granted out of the Rupees 368-15-10 set apart for the improvement of the town.

2. Only Rupees 135 have been allotted up to date.

SANCTIONED, subject to the confirmation of Government.

(True Copy and Extract.)

(Signed) H. E. STOKES,
Secretary.

TRANSFERRED to the Public Works Department with reference to G.O , dated 24th April 1877, No. 1,335.

(Signed) J. STURROCK,
Under Secretary.

No. 182-B. ORDER THEREON, 19th December 1877, No. 2,172 W.

THE estimate does not require the sanction of Government. It will be forwarded for disposal to the District Engineer, Kistna.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 183. From W. S. HARINGTON, Esq., District Engineer, Madura, to the Chief Engineer, Public Works Department, dated Madura, 24th November 1877, No. 216.

I HAVE the honor to bring the following facts to your notice, with reference to my letter No. 135, dated 9th September last, on which G.O., No. 791 W, was passed on the 27th idem.

2. Copy of this order was sent to Mr. Montserrat, the Sub-Divisional Officer, on the 5th October, the date of its receipt, with the following endorsement :—

"Communicated to the Assistant Engineer, Pereacolum Sub-division, for information, guidance and particular attention. Mr. Montserrat should apply to the Tahsildar for laborers, they being limited to those mentioned in paragraph 2."

Work was commenced on the road on the 26th ultimo by "Marithaven" under instructions from the Overseer, who in his turn received them from his Sub-Divisional Officer; these instructions were to carry on the work according to paragraph 5 of Government Order in the Revenue Department, dated 24th September, No. 2,847, communicated with Departmental Order, No. 801 W, dated 28th idem; but paragraph 29 of the above No. 2,847, would appear not to have been read by the Sub-Divisional Officer, at any rate it has not been acted up to; a large number of coolies have been employed who have been sent by the head-men of different villages, under instructions, I presume, from the Tahsildars, but not one of these has presented the "duplicate nominal roll," without which, paragraph 29 lays down, that no one should be employed. I am told that an expenditure of nearly 6,000 Rupees has been incurred, people having been summoned from their villages in all directions. I will address Government again on the subject early next week, when I can do so more exactly. I purpose proceeding to the work and making the necessary inquiries on Tuesday next. Of course I cannot but feel that numbers of people who should have gone to work in the fields may have been drawn to the lighter labor and the larger profits of the road work.

No. 183-A. From the same Officer, dated Madura, 4th December 1877, No. 238.

I HAVE the honor to forward copy of the Progress Report of Relief-works under the Executive Engineer, Dindigul Division, for the week ending 24th ultimo. Mr. Paynter in his No. 2,588, dated 28th idem, reports that his subordinates are acting strictly up to the rules laid down in paragraphs 5 and 29 of G.O., No. 2,847, of the 24th September last.

1 Copy of Progress Report.
1 Do. of the return of expenditure upon children.
1 Do. of Mr. Montserrat's No. 670, dated 3rd instant.
1 Do. of the District Engineer's reply to Mr. Montserrat, No. 2,267, dated 3rd instant.

2. Copies of Mr. Montserrat's report and of my reply thereto, regarding Road No. 4 from Madura to Tinnevelly, are enclosed for your information. The conduct of the man "Marithaven," referred to in my No. 216, dated 24th ultimo, is still under inquiry, the work has been taken from him as he has disobeyed orders; the amount due to him will be settled and reported upon hereafter.

From W. M. MONTSERRAT, Esq., Assistant Engineer, Pereacolum Sub-Division, to W. S. HARINGTON, Esq., District Engineer, Madura, dated Tiroomungalum, 3rd December 1877, No. 670.

I HAVE the honor to inform you that on my arrival at Tiroomungalum this morning I met Mr. Turner, Special Assistant Collector, who showed me the enclosed copy of G.O., 20th November 1877, F.R., No. 2.824, and stated that he would have to turn out some (10 or 15) coolies from the relief camp at this place. I have therefore the honor to request your orders as to whether I may recommence the work (relaying metal and gravel) from the third mile of Road No. 4 (Madura to Tinnevelly), putting on Sub-overseer Chockalingam Pillai, instead of entrusting the work to Contractor Marithaven, to receive any coolies who will be able to produce a nominal

roll from the relief camp, signed by the Tahsildar or other Civil official entrusted to do so by the Special Assistant Collector.

From W. S. HARINGTON, Esq., District Engineer, Madura, to W. M. MONTSERRAT, Esq., Assistant Engineer, Pereacolum Sub-Division, dated Madura, 3rd December 1877, No. 2,267.

YOUR No. 670, dated 3rd instant.

2. Your suggestion is approved. Care should be taken that the coolies are limited to those sent by the Civil authorities with duplicate nominal rolls, as laid down in paragraphs 5 and 29 of G.O., No. 2,847, of the 24th September last.

3. The Contractor "Marithaven" should be informed that the work done by him is very disgraceful, that he will not be allowed to do a stroke more and that the amount to be paid to him will be determined hereafter.

No. 184. ORDER THEREON, 20th December 1877, No. 2,187 W.

THE permission to employ contractors, granted in Public Works G.O., No. 791 W, of the 27th September last, to the District Engineer, Madura, is cancelled. The District Engineer will, in future, strictly follow the instructions conveyed in G.O., No. 801 W, of the 28th September, and in the Revenue Proceedings upon which it was based.

2. Mr. Harington has not reported clearly the person to whom blame should be attached in the present case. He will ascertain whether Mr. Montserrat, the Sub-Divisional Officer, or the Overseer beneath him, is in fault, and report the result of his inquiries to the Chief Engineer.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 185. From Major J. BEATTY, R.E., Officiating Superintending Engineer, Godavery District, to the Chief Engineer, Public Works Department, dated Camp, Dowlaishweram, 10th December 1877, No. 2,938.

IN forwarding herewith a letter* in original, received from the Officer in charge Western Delta Division, regarding certain tools under the charge of Taluq Overseer Mr. Mahony found missing at the late half-yearly tools and plant count, I have the honor to request permission to recover the value of the measuring tape from Mr. Mahony and of the other articles from Overseer Venkataswamy.

* To be returned.

From Lieutenant A. R. F. DORWARD, R.E., Assistant Engineer in charge, Western Delta Division, Godavery District, to the District Engineer, Godavery District, dated Camp, Undi Canal, 22nd November 1877, No. 435.

I HAVE the honor to inform you that during the late half-yearly tools and plant count the following tools under the charge of Taluq Overseer Mr. Mahony were found missing :—

No.	Description.			Value. RS.	A.	P.
1	50 feet tape	...	...	2	2	0
1	Europe mamoty	...	...	1	0	0
1	Sledge hammer	...	...	2	0	0

The 50 feet tape was dropped by mistake into the canal by Mr. Mahony, who was unable to recover it.

The mamoty was given by Taluq Overseer Venkataswamy, before he handed over charge to Mr. Mahony, to a bantadar to do some work with. The bantadar ran away with the mamoty. The matter was reported to the Police, but they have been unable to recover the mamoty.

In taking over charge from Venkataswamy Mr. Mahony found one sledge hammer missing and stated this fact in the receipt for tools which he gave to Venkataswamy. On being asked for explanation Overseer Venkataswamy stated that when he took over charge from his predecessor a mason's hammer was given to him instead of a sledge hammer, and that through oversight he did not bring the matter to notice. The total number of masons' hammers however is correct, so that on Overseer Venkataswamy's own showing he must have lost one mason's hammer which he received instead of a sledge hammer. I have the honor to request instructions as to how I am to proceed in the matter.

No. 186. ORDER THEREON, 20th December 1877, No. 2,188 W.

THE District Engineer's proposals are approved.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper :—

No. 187. From E. H. PRINGLE, Esq., District Engineer, South Canara, to the Chief Engineer, Buildings and Roads, dated Camp, Tallur, 8th December 1877, No. 63.

PARAGRAPHS 9 and 10 of the South Canara Collector's letter to the Board of Revenue and the Board's observations thereon printed with G.O., No. 1,661 W, dated 15th November 1877, seem to require some further explanation, and I have the honor therefore to show below the allotments, expenditure, and unutilized balances of Local Funds distinguishing the agencies more clearly than the statement in paragraph 10 of the Collector's letter does :—

By Public Works Department.

——	Allotment.	Expenditure.	Balances.	Percentage of Balance on Allotment.
	RS.	RS.	RS.	
(I) Communications	97,250	77,655	19,595	20·1
(II) Education	2,515	2,269	246	9·8
(III) Sanitary and Miscellaneous	7,899	1,714	6,185	78·3
Total ...	1,07,664	81,638	26,026	24·2

By Other Agency.

——	Allotment.	Expenditure.	Balance.	Percentage.
	RS.	RS.	RS.	
Communications	12,828	10,148	2,680	20·9
Education...	484	372	112	23·1
Sanitary and Miscellaneous	6,951	3,261	3,690	53·1
Total ...	20,263	15,495	6,482	32·0

If allowance is made for the short outlay due to non-receipt of iron work for Feringapett bridge ordered in 1875 Rupees 8,000, for that due to the site for the Dispensary at Buntwal having remained unsettled (as it is to this day) by Government Rupees 4,835, and for actual savings under the Benhatty road Rupees 1,649, two of which items were utterly beyond the control of the Local Department, and the third a result of good work, the percentage of I, II, and IV become respectively 10·2, 17·2, and 10·7 figures that place the working of the department in a much more favorable light than is suggested by the Collector's returns and Revenue Board's remarks.

As the returns stand it will be seen that the total expenditure, Local, of the Public Works Department compares favorably with that "by Other Agency," and in future reports of progress I think it would be fairer to all parties, and would save incorrect inferences being drawn if expenditure be distributed as I have done on this letter.

No. 188. ORDER THEREON, 20th December 1877, No. 2,189 W.

THE District Engineer's letter will be communicated to the Board of Revenue.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper:—

No. 189. From W. B. LEGGATT, Esq., A.I.C.E., Officiating District Engineer, Bellary, to the Chief Engineer, Public Works Department, dated Bellary, 15th December 1877, No. 4,078.

I HAVE the honor to bring to your notice that there is no longer any need for the employment of Sappers in this district, and would suggest that the "E" Company of "Queen's Own" Sappers and Miners now under my orders be retransferred to its head-quarters at Bangalore.

No. 190. ORDER THEREON, 20th December 1877, No. 2,190 W.

THE Military Department will be informed that the Company of Sappers and Miners employed in the Bellary District can return to ordinary duty, and are at their disposal.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

No. 191. *Dated the 20th December 1877, No. 2,197.*

THE Governor in Council directs that the District Engineer of the Presidency will forward by to-morrow night's train to Gorriatum, North Arcot District, to the care of the Tahsildar at that station, 6,000 square feet of the matting used either in the Perambore or Salt Cotaur Famine Relief Camps under his charge. Two trucks have been ordered which should be laden as near the camps in question as practicable.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 192. From W. S. HARINGTON, Esq., District Engineer, Madura, to the Chief Engineer for Buildings and Roads, dated Madura, 21st November 1877, No. 212.

One revised estimate.
„ comparative statement.
„ copy of the Madura Range Officer's No. 2,967 of the 12th instant.

I have the honor to submit, for the sanction of Government, a revised estimate amounting to Rupees (4,800) four thousand eight hundred, for constructing four mud boats for employment on the Paumben Channel. This estimate is in lieu of that sanctioned in G.O., No. 2,391, of the 7th September 1876. The revision now made does not involve any excess expenditure, but only slight deviations from the sanctioned estimate.

From H. B. HUTCHINGS, Esq., Assistant Engineer, Madura Division, to the District Engineer, Madura, dated Madura, 12th November 1877, No. 2,967.

I have the honor to submit, for your approval, a revised estimate and comparative statement, amounting to Rupees 4,800, for constructing four mud boats and two canoes for Paumben Sub-division.

2. The Overseer in charge of Paumben operation reports that 65 tollams of revet nails with washers at the value of 195 is still required to complete the mud boats, and the above sum may be met from the savings effected from other items, and chiefly from the item purchase of iron for ribs as shown in the comparative statement.

No. 193. Order thereon, 21st December 1877, No. 2,204 W.

The revised estimate of Rupees 4,800 for constructing four mud boats for the Paumben Channel is sanctioned in lieu of that for the same amount sanctioned in G.O., No. 2,391, dated 7th September 1876.

2. This sanction has been registered as Provincial No. 244 B. of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No 194. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 19th December 1877, No. 5,643.

I have the honor to request that you will be good enough to favor me with orders of Government on my letter No. 4,910, dated 2nd November last, regarding the buildings proposed to be constructed in 1877-78 in South Canara. The Superintendent of Police reports that the current year's allotment cannot be fully utilized for want of orders on the plans and estimates, &c., forwarded with the letter quoted above.

No 195. ORDER THEREON, 21st December 1877, No. 2,205 W.

SEPARATE orders* have been passed on the letter referred to, but no appropriation of funds has been made for the work; there being no money available.

* G.O., No. 2,157 W, dated 19th December 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 196. From the District Engineer, Madura, dated Madura, 12th December 1877, No. 244.

From W. M. MONTSERRAT, Esq., Assistant Engineer, Pereacolom Sub-Division, to W. S. HARINGTON, Esq., District Engineer, Madura, dated Camp, Terumungalem, 4th December 1877, No. 493.

YOUR Nos. 2,033 and 2,221, dated 19th and 29th November 1877, respectively.

I have the honor to bring to your notice that at present I am repaying a loan of Rupees 700 received from Government by monthly instalments of 58 Rupees and odd, which amount will be refunded by January 1878, I would therefore request you will kindly get me to be allowed to pay the arrears of my vernacular fine by four instalments commencing from February 1878.

No. 197. ORDER THEREON, 21st December 1877, No. 2,208 W.

MR. MONTSERRAT will be allowed to pay the arrears of his vernacular fine in four nstalments commencing from February 1878.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Read the following paper:—

No. 198.

General.

Account.

PROVINCIAL.

Part I.—Irregularities with respect to Estimate.

Item No.	Particulars.	Amount of Estimate.	Expenditure up to Date.	Excess over Estimate.	Expenditure during Month.	Opinion of the District Engineer, with final Remarks by Examiner.	Orders by Local Government.
		RS.	RS.	RS.	RS.		No. 199. ORDER THEREON, 22nd December 1877, No. 2,222 W.
	Architect.						
	Tools and Plant	...	364	364	...	The District Engineer's reply for a reference made by this office is awaited.	1. It is presumed that a reminder has been sent; if so, the fact should have been noted.
	Berhampore.						
	Tools and Plant, new supplies ...	54	959	905	...	In their Proceedings No. 988 W, dated the 12th October 1877, the Government observe that this item is now under consideration.	2. This item has been disposed of in G.O., No. 1,891 W, of 30th November 1877.
	Bezwada.						
	Repairing Travellers' bungalow at Weyyoor.	474	875	401	...	The Government in their Proceedings, dated 12th October 1877, No. 988 W, direct the District Engineer to report the cause of the delay in the submission of this small estimate.	3. The Superintending Engineer has been requested in Chief Engineer's memorandum No. 4,555, dated 19th December to reply to the several references which have been made.
	Cuddalore.						
	Deputy Collector's Kacheri at Trikalore.	4,990	5,298	308	4	The District Engineer reports that a revised estimate will shortly be submitted for sanction.	4. The revised estimate is awaited.

PART I.—*Irregularities with respect to Estimate*—(Continued).

Item No.	Particulars.	Amount of Estimate.	Expenditure up to Date.	Excess over Estimate.	Expenditure during Month.	Opinion of the District Engineer, with final Remarks by Examiner.	Orders by Local Government.
	Cuddalore—(Continued).	RS.	RS.	RS.	RS.		
	Collector's Kacheri at Munjacoopum.	5,590	5,880	290	206	The District Engineer reports that a revised estimate has been submitted for sanction.	5. A supplemental estimate of Rupees 582 has been sanctioned in G.O., No. 2,069 W, dated 13th December 1877.
	Cuddapah.						
	Taluq Kacheri and Subsidiary Jail at Jummalmudugu.	28,760	30,219	1,459	458	The District Engineer reports that the excess outlay is within five per cent. of the estimates and therefore admissible. It could have been admitted by this office had the work been completed.	6. The District Engineer, Cuddapah, will report if the work is completed.
	Dindigal.						
	New Pulney Ghaut...	...	12,503	12,503	2,610	In G.O., No. 988 W, dated 12th October 1877, the Government state that sanction has been deferred until the estimate for the remainder of the ghaut has been submitted.	7. Recorded.
	Kambam.						
	Constructing Taluq Kacheri and Subsidiary Jail at Kambam.	...	14,462	14,462	...	In their Proceedings, No. 988 W, dated the 12th October 1877, the Government observe that no orders are at present necessary in respect to this objection.	8. The District Engineer will report precisely how the case stands at present, and upon what the expenditure was incurred. The information before Government is not very clear.
	Krishnapatam.						
	Improvements and extensions of canal from Cashan to Coromandel.	...	24,132	24,132	24,132	The District Engineer's reply to a reference made by this office is awaited.	9. Recorded.

Madanapalli.						
New Taluq Kacheri at Kadri ...	24,200	25,516	1,316	71	The District Engineer reports that a revised estimate is under preparation.	10. Recorded.
Mangalore.						
Renewing the roof of District Jail at Mangalore.	...	14,901	1,491	7	In G.O., No. 988 W, dated 12th October 1877, the District Engineer is requested to report the circumstances that hinder the sale of materials and the consequent removal of the objection.	11. *Vide* paragraph 8 of G.O., No. 1,785 W, of 26th November 1877, to which the District Engineer should have paid attention. He will now do so.
Sea Custom House at Velangany ...	1,590	1,804	214	...	The District Engineer reports that this item cannot be adjusted as the papers connected with it are in the custody of the Civil Court in connection with a suit. In G.O., No. 1785 W, dated 24th November 1877, the Government state that the District Engineer will report how long the Civil Court is likely to require the papers.	12. The District Engineer's reply to paragraph 11 of G.O., No. 1,785 W, of 26th November 1877 is awaited. He will state whether he has addressed the Judicial authorities.
Nilgiri.						
Constructing dry stone drains on the road through Government House Garden towards Upper Norwood at Ootacamund.	730	961	231	...	In their Proceedings No. 988 W, dated 12th October 1877, the Government direct the District Engineer to remove the objection as early as possible.	13. No further orders are necessary.
Government House at Norwood ...	21,500	79,507	58,007	75	The District Engineer reports that the amount will be adjusted on receipt of further Government sanction which has been solicited; also that the estimate for the new building cannot be prepared until all the plans are received from the Consulting Architect.	14. The District Engineer's remarks have been communicated to the Consulting Architect, *vide* Chief Engineer's Memorandum No. 4,512, dated 17th December. No orders beyond what have already been issued can be passed.

PART I.—*Irregularities with respect to Estimate*—(Continued).

Item No.	Particulars.	Amount of Estimate.	Expenditure up to Date.	Excess over Estimate.	Expenditure during Month.	Opinion of the District Engineer, with final Remarks by Examiner.	Orders by Local Government.
		RS.	RS.	RS.	RS.		
	Presidency.						
	Sinking a pucka brick well at the Lunatic Asylum.	...	1,222	1,222	...	The Government in their Proceedings, No. 988 W, dated 12th October 1877, observe that the estimate is awaited.	15. An estimate has been received and is under consideration.
	Conservancy of the Cooum... ...	...	891	891	178	In G.O., No. 1,785 W, dated the 26th November 1877, the District Engineer is directed to issue orders to the Executive Engineer to expedite the submission of the estimate.	16. The District Engineer has sanctioned an estimate for this work, *vide* G.O., No. 2,116 W, of 15th December 1877.
	Erecting scaffolding for repairing the face of the Clock of St. Mary's Church, Fort St. George.	...	332	332	...	In G.O., No. 1,785 W, dated the 26th November 1877, the District Engineer is directed to take steps for removing the objection.	17. The District Engineer has sanctioned an estimate for this work, *vide* G.O., No. 2,116 W, of 15th December 1877.
	Clearing the nullah, &c., in the compound of the old College building.	...	289	289	289	The District Engineer has not yet replied to a reference made by this office.	18. Recorded.
	Erecting Public Works Stores and Workshops at Seven Wells.	1,28,350	1,65,907	37,557	...	In their Proceedings, No. 988 W, dated 12th October 1877, the Government observe that a revised estimate should at once be submitted for sanction.	19. The revised estimate is under consideration.
	Repairing and whitewashing walls, &c., of the several buildings, Military Female Orphan Asylum.	2,560	3,207	647	297	The District Engineer reports that the original estimate was exceeded on account of addi-	20. Recorded.

					tional works carried out to the Military Female Orphan Asylum buildings and that a revised estimate will be sanctioned shortly.	
Ussur.						
Erecting a temporary shed for the location of the under-trial prisoners.	...	219	219	219	The District Engineer has not yet replied to a reference made by this office.	21. Recorded.

PROVINCIAL.

PART II.—*Irregularities with respect to Appropriation, September* 1877.

Item No.	Particulars.	Amount of Appropriation.	Expenditure of the year.	Excess over Appropriation.	Expenditure during month.	Opinion of the District Engineer, with final remarks by Examiner.	Orders by Local Government.
		RS.	RS.	RS.	RS.		
	Chikkakol.						
	Overseer's office at Regunadhapur...	...	595	595	35	The District Engineer reports that Rupees 700 have been entered for this work in the statement of demand submitted to the Chief Engineer, Buildings and Roads, on the 30th April 1877, regarding which he has received information.	22. The District Engineer was out of order in commencing the work before funds had been provided. At present Government are unable to meet the expenditure, which must now remain classed as objectionable.
	Krishnapatam.						
	Improvements and extensions of canal from Casha to Coromandel.	...	24,132	24,132	24,132	The District Engineer has not yet replied to a reference made by this office.	23. Recorded.
	Nilgiri.						
	Government House at Norwood ...	...	16,774	16,774	75	In G.O., No. 1,785 W, dated the 26th November 1877 the Government state that the question of providing funds for these works is still before the Financial Department.	24. Rupees 16,091 were appropriated for this work in G.O., No. 1,792 W, of 26th November 1877.
	Constructing dry stone drains on the road through the Government House towards Upper Norwood at Ootacamund.	...	645	645	...		25. Rupees 645 in the same.
	Purchasing the Sunning Dale property for Government.	...	5,500	5,500	...	Do. do. ...	26. And Rupees 5,500 in the same.
	Palghaut.						
	Constructing Police Station at Kolattoor.	...	800	800	284	The District Engineer reports that funds have been applied for in the list of incomplete works of 1876-77, but that the application has not yet been attended to.	27. The District Engineer has been called on for explanation in Chief Engineer's Memorandum No. 4,556, dated 19th December 1877.

Presidency.						
Sinking a pucka brick well at the Lunatic Asylum.	...	1,222	1,222	...	The Government in their Proceedings, No. 988 W, dated 12th October 1877, observe that the District Engineer should suggest the source from which funds may be granted for the work when submitting the estimate for the sanction of Government.	28. An estimate for the work is now under consideration. In G.O., No. 1,792 W, of the 20th November 1877, Rupees 656 were appropriated. The remaining Rs. 522 cannot be provided and the item must continue objectionable.
Repairing and whitewashing walls &c., of the several buildings of the Military Female Orphan Asylum.	2,560	3,207	647	297	The District Engineer reports that the original sanctioned amount was exceeded on account of additional works carried out to the Military Female Orphan Asylum buildings and that funds will be appropriated shortly.	29. Recorded.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 200. Proceedings of the Board of Revenue, dated 20th December 1877, Miscellaneous No. 17,235.

READ G.O., Public Works Department, dated 13th November 1877, No. 1,644 W, informing that the current year's Imperial Budget provides Rupees 5,000 for maintenance of the Vedarniem canal, Tanjore District, and that the appropriation made from the Canal and Ferry Fund may therefore probably be otherwise utilized with advantage.

THE allotment of Rupees 6,750 in the Budget of the Canal and Ferry Fund for 1877-78 for the up-keep of the Vedarniem canal is cancelled.

2. The Board presume that provision for the maintenance of the canal will continue to be made in the Imperial Budget.

(True Extract.)

(Signed) H. E. STOKES,
Secretary.

To the Secretary to Government, Public Works Department.

No. 201. ORDER THEREON, 22nd December 1877, No. 2,223 W.

COMMUNICATED to the District Engineer, Tanjore.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following papers :—

No. 202. From Lieutenant-Colonel R. B. KENNEDY, District Engineer, Malabar, to the Chief Engineer, Public Works Department, dated Camp at Manantoddy, 22nd October 1877, No. 104.

I HAVE the honor to forward an indent for certain articles required by the Cannanore Divisional Officer from the Arsenal at that station for the purpose of annually hoisting and lowering the flagstaff and otherwise repairing it; hitherto these stores were supplied from the Ordnance Depôt when required; as the depôt is about to be abolished, and all stores ordered to be sent to Madras or sold, the Military authorities at Cannanore wish the stores now indented for may be retained in the Department Public Works Stores there.

2. The cost of the stores and transport charges amount are stated by Acting Deputy Inspector-General of Ordnance and Magazines to be Rupees 948-3-4; as I have no funds at my disposal, I beg that the amount may be sanctioned. I am not quite clear about the necessity of the item for transport charges, as it is only for the stores at Cannanore the requisition is made.

No. 202-A. From Captain H. BAILEY, Acting District Engineer, Malabar, to the Chief Engineer, Public Works Department, dated Camp at Calputty, 28th November 1877, No. 127.

IN reply to your No. 3,535 of the 26th ultimo, I have the honor to state that the Conservator of the port at Cannanore reports that he can only hoist the flagstaff if

an establishment and expenses incurred in doing so are allowed; under these circumstances it is just as easy for the Range Officer to do so.

No. 4,238.

REFERRED to the Master Attendant, Administrative Department, Madras, for any remarks he may wish to offer previous to submission of the proposal to Government, and for opinion as to the source whence funds should be provided.

FORT ST. GEORGE,
3rd December 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Chief Engineer, P.W.D.

No. 202-B. From J. H. TAYLOR, Esq., Lieutenant, R.N.R., Master Attendant, Administrative Department, to the Chief Engineer, Public Works Department, dated Madras, 17th December 1877, No. 8,907.

IN returning the indent on the Arsenal at Cannanore for appliances required annually for hoisting and lowering the topmast of the Cannanore flagstaff, I have the honor to remark that I do not think it necessary to incur so great an expenditure as it occurs to me that all that is required is—

A good mast rope.
A top block.
A luff tackle.
A watch do.
A snatch block for a fair lead.

2. I would suggest that the topmast be sent up by the Public Works Officer this season (if it has not already been done) in the manner he has been accustomed to, borrowing the appliances from the Arsenal as in former years, and he might be asked to furnish this office with the length of the topmast, its diameter at heel and head, and the name of the wood of which it is made. The necessary gear before-mentioned could be supplied for future operations, and if a Serang or Tindal cannot be procured locally for conducting the work, some one could be sent from Calicut or Cochin when required, or the topmast might be kept aloft altogether.

No. 203. ORDER THEREON, 22nd December 1877, No. 2,224 W.

THE Master Attendant's letter will be communicated to the District Engineer, Malabar, for information and guidance.

(Signed) E. A. FOORD, Colonel, R..E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper:—

No. 204. Proceedings of the Court of Wards, dated 5th December 1877, No. 5,163.

Read the following letter from W. McQUHAE, Esq., Collector of Madura, to H. E. STOKES, Esq., Secretary to the Court of Wards, dated 21st November 1877, No. 161.

WITH reference to paragraph 3 of the Court's Proceedings, dated 19th October 1877, No. 4,779, I have the honor to enclose a list showing the establishments

employed on the Bodinaickanur Minor's bungalow at Madura. A sum of Rupees 1,167-0-3 has been spent up to date on that account and charged to the estimate out of Rupees 1,205-13-0 provided for superintendence in the sanctioned revised estimate. No Overseers were appointed, but the work was executed by the Public Works Department Overseer of the Madura Range, and supervised by the Public Works Department Officer in charge of that range. No formal withdrawal and transfer of the work by the Public Works Department has taken place and nothing has therefore been done in the matter. The Consulting Architect has been addressed on the subject of making the building secure.

ENCLOSURE No. 1.—List.

SUBMITTED for the information of Government with reference to paragraph 2, G.O., dated 7th July 1877, No. 372 W, Public Works Department.

2. The completion of the building has been entrusted to Mr. Chisholm.

(A true Copy and Extract.)

(Signed) C. A. GALTON,
Sub-Secretary.

No. 205. ORDER THEREON, 22nd December 1877, No. 2,225 W.

ORDERED to be recorded.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 206. From H. G. TURNER, Esq., C.S., Acting Postmaster-General, to the Secretary to Government, Public Works Department, dated Madras, 3rd December 1877, No. 9,368-3,407.

IN accordance with the instructions conveyed in the Public Works Department, dated 28th September 1877, No. 794 W, the Inspector of Post Offices of the Palamcottah Division, in whose division Travancore is also included, applied to the District Engineer of Malabar to execute some repairs to the Post Office at Quilon which is a Government building. But that officer has replied that the Department of Public Works is not now in a position to undertake any work at Quilon, and he suggests that the repairs should be undertaken by the Postal Department.

2. I have no doubt that this can be done, but as it runs counter to the provisions of Government on the subject, I have the honor to request further instructions.

No. 4,281.

REFERRED to the District Engineer, Malabar, for report.

(Signed) W. FAREWELL, Colonel,
4th December 1877. Under Secretary to Government, P.W.D.

No. 206-A. From Captain H. BAILEY, Acting District Engineer, Malabar, to the Deputy Chief Engineer, Public Works Department, dated Calicut, 8th December 1877, No. 132.

WITH reference to your endorsement, No. 4,281, of the 4th instant, on letter* from the Postmaster-General, No. 9,368-3,407 of the 3rd idem, I have the honor to inform you that this department has at present no subordinate to send to Quilon to carry out the work; it would therefore it seems to me be better for the Postal Department to carry it out in the present instance.

* Herewith returned.

2. The Officer in charge of Palghaut Division is, I believe, now at Quilon and will I presume report on the state of the Post Office there.

No. 206-B. From the same Officer, dated Calicut, 18th December 1877, No. 138.

IN reply to your memorandum, No. 4,409, dated 11th instant, I have the honor to state that the Palghaut Range Officer inspected the Government buildings at Quilon including the Post Office; an estimate for its repair has been called for, on receipt of which it will be forwarded for sanction.

No. 207. ORDER THEREON, 22nd December 1877, No. 2,226 W.

THE Order of the 28th September 1877, No. 794 W, does not preclude repairs at Quilon being carried out by Civil Agency when such an arrangement would be more convenient than employing the Public Works Department to do so, and as this seems to be the case in the present instance, the execution of the work of repairing the Post Office by the Postal Department is approved.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 208. From Captain L. CONWAY-GORDON, R.E., Examiner of Public Works Accounts, to the Chief Engineer, Buildings and Roads, dated Fort St. George, 19th December 1877, No. 45 B.

I HAVE the honor to bring to your notice the following excesses that have appeared in the accounts, of the Harbour Works for October 1877 :—

	Outlay in October 1877. RS.	A.	P.	Estimate. RS.	A.	P.
Preliminary works	3,260	8	8			
Detailed survey	10,555	4	4			
	13,815	13	0	5,000	0	0
Railways.						
Rails from England	1,38,403	7	8			
Sleepers	39,385	7	5			
Formation	66,777	7	7			
	2,44,566	6	8	1,50,000	0	0
Plant.						
Machinery	2,46,924	6	5	1,25,000	0	0
Office furniture	3,940	3	10	2,000	0	0

No. 209. ORDER THEREON, 22nd December 1877, No. 2,227 W.

ORDERED to be recorded.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 210. From Colonel C. S. HEARN, Inspector General of Police, to the Secretary to Government, Public Works Department, dated Madras, 9th July 1877, No. 2,995.

I HAVE the honor to submit, for the sanction of Government, the accompanying Public Works Department plan and estimate* with specification amounting to Rupees 507 for alteration by that department of the bungalow at Tholoodoor into a Police station-house, in the South Arcot District.

* Returned to Inspector-General.

2. The work is entered at an approximate cost of Rupees 400 in the lists approved by Government in G.O., No. 132, dated 15th January 1877, Public Works Department, and the additional sum of Rupees 107 required will be provided for in due course hereafter in 1877-78 should funds become available for the purpose.

3. The documents are submitted *direct* to save delay as requested by the Superintendent of Police.

No. 210-A. From the same Officer, dated Madras, 6th December 1877, No, 5,411.

ADVERTING to the Deputy Chief Engineer's memorandum, No. 2,070, dated 25th July last, I have the honor to forward for sanction the accompanying revised Public Works Department estimate, with plan and specification report, amounting to Rupees 640 for altering the Tholoodoor bungalow, South Arcot District, into a Police station-house, without affecting the existing additional accommodation in it as suggested by that officer.

2. Funds to the extent of Rupees 400 only are available for expenditure by Public Works Department in 1877-78, and the balance (Rupees 240) will be included in the lists of incomplete works due in April next should no money in the meanwhile become available for transfer to the district.

3. If this proposal meet the approval of Government I beg to request that sanction be accorded for the appropriation of Rupees 400 from the balance of the Provincial Reserve of 1877-78 accordingly.

4. The cost (Rupees 142) of a new cook-house and latrine proposed to be added by the District Engineer has been struck out of the estimate, as being unnecessary for Police purposes and also for want of sufficient funds in the Police hutting and building allotment.

5. The documents are submitted *direct* to save delay.

No. 211. ORDER THEREON, 22nd December 1877, No. 2,228 W.

THE estimate of Rupees 640 for altering the traveller's bungalow at Tholoodoor and supplying accommodation for a Police station in it is sanctioned. It is remarked that a floor of concrete paid over with a composition of tar and asphalte is quite as strong and more durable than an ordinary plastered floor and should be adopted.

2. Rupees 400 are appropriated from the Provincial Reserve of 1877-78. The balance Rupees 240 will be included in the list alluded to in paragraph 2 of the foregoing letter.

3. This sanction has been registered as Provincial No. 245 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 212. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Roads and Buildings, dated Fort St. George, 8th December 1877, No. 5,235.

WITH reference to paragraph 20 of G.O., No. 651 W, dated 27th August 1877, I have the honor to submit for sanction and allotment of funds a plan, specification report and estimate amounting to Rupees 1,222 for two pucka brick wells sunk at the Lunatic Asylum.

One Plan.
" Estimate.
" Specification Report.

2. During the last hot season when scarcity of water was much felt several pot wells were sunk in different localities in the compound of the Lunatic Asylum, and it was found that in two of them the water proved good; but as pot wells gave a very inadequate supply the Surgeon-General, Indian Medical Department, requested me to have two of them converted into pucka brick wells.

3. I accordingly ordered the work to be commenced on emergency in anticipation of sanction of Government.

4. A sum of Rupees 656 has been granted in G.O., No. 1,792 W, dated 26th November 1877, for this work, the balance of Rupees 566 I request may now be allotted from funds at the disposal of Government, as I am unable to suggest any source from which it can be provided.

The plan and estimate have been approved by the Surgeon-General, Indian Medical Department.

No. 213. ORDER THEREON, 22nd December 1877, No. 2,229 W.

THE plan and estimate of Rupees 1,222 for two pucka brick wells sunk at the Lunatic Asylum are sanctioned.

2. As no funds are available for appropriation to the work, the District Engineer must suggest transfers from existing grants to meet the balance of Rupees 566 required.

3. This sanction has been registered as Provincial No. 246 B. of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 214. Endorsement of the Secretary to Government, Military Department, dated 20th December 1877, No. 7,040.

From Brigadier-General H. O'CONNELL, Quartermaster-General, to Colonel J. MICHAEL, C.S.I., Secretary to Government, Military Department dated Fort St. George, 19th December 1877, No. 8,482.

IN returning as requested the documents forwarded with your No. 6,982, dated 18th instant, I have the honor, by order, to report that a telegram has been sent to the Officer Commanding B Company Sappers and Miners to move his Company to Madras in communication with the Civil Authorities.

2. This Company has been away from head-quarters for upwards of a year. The men have been separated from their families and exposed to much discomfort during that period. Unless, therefore, there is real necessity for their continued employment, it is desirable both for the sake of discipline and instruction as well as in regard for the private interests of the men that they should return to head-quarters.

3. In Major Pennycuick's letter, published in Proceedings of Government, Revenue Department, dated 28th November 1877, No. 2,950, a whole Company is not asked for, but only a few Non-commissioned Officers of Sappers (paragraph 8). Under these circumstances the despatch of a whole Company would seem to be unnecessary. His Excellency the Commander-in-Chief would suggest that Major Pennycuick be requested to state the number and kind of men he requires, when the Commandant of the Sappers will be directed to detail them for the duty from whatever Company may be most suitable regimentally.

REFERRED to the Public Works Department and the previous papers returned as requested.

(By Order,)

(Signed) J. MICHAEL, Colonel,
Secy. to Govt., Mily. D.

No. 215. ORDER THEREON, 26th December 1877, No. 2,235 W.

THE suggestion made at the conclusion of General O'Connell's letter is approved Major Pennycuick will report in accordance with it at an early date.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 216. From Colonel C. S. HEARN, Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Madras, 18th December 1877, No. 5,633.

WITH reference to the entry of Rupees 200 at page 2 of the lists of incomplete works embodied in G.O. No. 532, dated 4th August 1877, Public Works Department, I have the honor to forward for sanction a revised estimate (Rupees 530-4-10) with a comparative statement showing an increased expenditure of Rupees 80-4-10 incurred for completing the Bellamkondah Station-house in the Kistna District in 1877-78.

2. The above increase is chiefly attributed to the necessity for conveying the materials long distances and to chunam borders having to be re-made in consequence of damage caused to the first work by heavy rains. Water also was not procurable on the spot and had to be carried by coolies some distance.

3. A sum of Rupees 50 to meet the increase having been already appropriated under Government Order quoted in paragraph 1, I beg to request that sanction be accorded for a further appropriation of Rupees 31 from the balance of the "Provincial Reserve" of 1877-78 towards the additional charge.

No. 217. Order thereon, 27th December 1877, No. 2,240 W.

The revised estimate amounting to Rupees 530 for constructing Police Station-house at Bellamkondah in the Kistna District is sanctioned.

2. The amount required being below Rupees 50, no specific appropriation of funds is necessary.

3. This sanction has been registered as Provincial No. 247 B of 1877-78.

(Signed) E. A. FOORD, Colonel, R.E,
Secretary to Government, P.W.D.

General.

Account.

Read the following paper:—

No. 218. Endorsement of the Disrict Engineer, Presidency, dated 21st December 1877, No. 5,513.

From J. N. GRAINGER, Esq., General Superintendent of Public Works Stores and Workshops, Madras, to the District Engineer, Presidency, dated Madras 20th December 1877, No. 1,138.

I have the honor to return the Packing Account of Mysore Foreign Fund Stores per S.S. *Sultan*, dated 30th June 1877, for transmission to Government.

Submitted to the Chief Engineer, Public Works Department.

(Signed) ROSS THOMPSON, Major, R.E.,
District Engineer, Presidency.

No. 219. Order thereon, 27th December 1877, No. 2,241 W.

Ordered that the Packing Account be forwarded to the Home Government.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

No. 220. From the Secretary to the Government of Fort St. George, Public Works Department, to the Under Secretary of State for India, dated 27th December 1877, No. 2,242 W.

Sir,—I am directed to retransmit, for submission to the Most Honorable the Secretary of State for India, the original Packing Account of Public Works Stores shipped per S.S. *Sultan* for Mysore, and to state that the stores have been received correctly and in good order.

General.

Establishment.

Read the following paper :—

No. 221. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Public Works Department, dated Fort St. George, 19th December 1877, No. 5,456.

I HAVE the honor to inform you that I claimed pay and allowances for Mr. Faulkner, Executive Engineer, 2nd Grade, from 3rd to 31st October 1877, both days inclusive, as he reported arrival to me in the afternoon of 2nd October 1877; but the Examiner of Public Works Accounts in passing the charge pointed out that Mr. Faulkner reported arrival in the Presidency in the afternoon of the 21st September 1877, and that pay should be claimed from that date. I then sent in a bill for both pay and allowances from 22nd September to 2nd October 1877, both days inclusive. The Examiner of Public Works Accounts passed the pay of Mr. Faulkner, but in passing the conveyance allowance states that he passed it provisionally pending sanction of Government which should be obtained by me. I have therefore the honor to request that Government will be good enough to authorize the Examiner to admit the charge.

No. 222. ORDER THEREON, 27th December 1877, No. 2,243 W.

THE Examiner will admit the charge.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 223. Proceedings in the Educational Department, dated 23rd June 1877, No. 259.

No. 223-A. NOTE.

COLONEL ROGERS appears to have three causes of complaint against the Public Works Department: 1*st*, that the students who join from the Civil Engineering College do not meet with kind and considerate treatment from their superiors; 2*nd*, that they are not employed so readily as they should be, as some District Engineers have a penchant for ignorant and dishonest Overseers of the old school, preferring to engage them rather than the Civil Engineering College pupils; 3*rd*, that the Public Works system is much in fault in not arranging that the students shall be placed under the direct supervision of the District Engineer when first they enter the department.

2. With regard to the first complaint the Chief Engineer need only remark that he has no occasion to think that District Engineers, most of whom are officers of long standing and good reputation, are likely to show other than considerate treatment to Civil Engineering students in common with other newly engaged subordinates.

3. With regard to the second allegation, Colonel Foord has the honor to circulate lists showing the proportion of Overseers in the department who were trained in the Civil Engineering College (which will be found to be a very considerable proportion) and the tests passed by those Overseers who were not so trained. From which the Government will see that the number of Overseers whose character corresponds with that described in the beginning of Colonel Rogers' second paragraph must be very small, and that of late years very few men who have not passed some est have been engaged.

4. In reply to the concluding paragraph of the remarks, the Chief Engineer sees a difficulty in carrying out what Colonel Rogers desires. The Public Works Department of Madras is by no means large, and District Engineers have not always the time to watch over the new Overseers in their districts. To prevent stoppage of work it is often necessary to post Overseers at once to the charge of a taluq or portion of a taluq, and experience is acquired by the performance of their duties in such charges. District Engineers will make allowance for want of experience, which is at first unavoidable.

FORT ST. GEORGE,
22nd December 1877.

(Signed) E. A. FOORD, Colonel, R.E.,
Chief Engineer, P.W.D.

No. 224. ORDER THEREON, 27th December 1877, No. 2,244 W.

ORDERED to be recorded.

(Signed) E. A. FOORD Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following papers :—

No. 225. From Captain L. CONWAY-GORDON, R.E., Examiner of Public Works Accounts, dated Fort St. George, 30th November 1877, No. E W 173 N A.

FORWARDED to the Chief Engineer, Public Works Department, with the following remarks, viz. :—

In ordinary course the appointment of persons to either the permanent or the temporary establishment of the Public Works Department, under titles and scales of salary not recognised in the department, is prohibited, *vide* Public Works Code I, ii. 24 and I. iii. II, but whether this ruling applies to these exceptional famine establishments, I am unable to say.

If the ruling does apply, the titles and scales of pay and horse allowance noted against several individuals on this list are not recognised in the department.

No. 225-A. From the same Officer, dated 18th December 1877, No. E 204 C D.

FORWARDED with the remark that the establishments referred to are transferred under titles and on scales of salary not recognised in the department.

No. 226. ORDER THEREON, 27th December 1877, No. 2,245 W.

THE Examiner will accept the titles and scales of pay and horse allowance noted against the individuals appearing in these and any other lists of persons transferred from the Civil to the Public Works Department.

(Signed) E. A. FOORD Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 227. From Mr. H. LYON, Assistant Engineer, dated 6th December 1877, No. 33

ABSTRACT.—Requesting consideration of the remarks upon G.O. No. 1,901 W of 1st December 1877.

No. 228. ORDER THEREON, 27th December 1877, No. 2,246 W.

THE Government decline to re-open the case.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Establishment.

Read the following paper :—

No. 229. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Camp at Kullacoorchi, 10th December 1877, No. 216.

I HAVE the honor to forward a copy of a letter from Mr. F. B. Pemberton, Executive Engineer, on famine duty in this district, requesting as a special case that he may be allowed to draw full pay for the period he has been and will be laid up, unable to work, in consequence of his broken arm.

2. In my letter No. 165, dated 29th October, I reported the fact of Mr. Pemberton having broken his arm on the night of the 23rd October when travelling on duty, he came into Cuddalore on the 2nd November, and has been there ever since. I fear that there is but little hope of his being able to return to duty until next month, as the fracture was a bad one, and much aggravated by his journey of upwards of 80 miles.

3. Mr. Pemberton has no privilege leave due to him, and should Government not grant him the indulgence asked for will have to go on half pay for the time he is sick and unable to do duty. I request if possible that he may be allowed as a special case to draw his full pay.

From F. B. PEMBERTON, Esq., Executive Engineer, on Special Famine Duty, to Major H. R. MEAD, R.E., District Engineer, South Arcot, dated Cuddalore, 30th November 1877, No. 20.

YOU are aware that on the 23rd of last month I sustained a very serious accident and broke my right arm whilst travelling from Trinomalay to Mala Padoor for the purpose of taking surveys, &c., in connection with the Cheyar irrigational project, which has necessitated my being placed on the the sick list.

2. There is a clause in the sick leave rules of the department to the effect that if an officer remains over a month on the sick list he draws only half pay during the whole of that period. This evidently has reference to cases of ordinary sickness, but as my accident happened whilst I was in the discharge of my public duty, and as it is not a case of ordinary sickness, I trust that as a special case I may be allowed to draw full pay during such time as I may unfortunately be compelled to remain on the sick list.

No. 229 A. From the Examiner of Public Works Accounts, dated 19th December 1877.

No. 230. ORDER THEREON, 29th December 1877, No. 2,247 W.

THE indulgence sought for cannot be granted. Mr. Pemberton must draw pay at the ordinary rate for sick leave; which he should apply for in the usual course.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

General.

Account.

Read the following papers:—

No. 231. Proceedings of the Board of Revenue, dated 21st December 1877, Miscellaneous No. 17,290.

READ G.O., Public Works Department, dated 28th November 1877, No. 1,844 W.

RECORDED.

2. The column "Expenditure up to the year" in the statement which accompanied the Collector's report was erroneously taken as showing outlay up to the commencement instead of the close of the year.

(True Extract.)

(Signed) C. A. GALTON,
Sub-Secretary.

No. 232. ORDER THEREON, 29th December 1877, No. 2,249 W.

COMMUNICATED to the District Engineer, North Arcot.

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

PUBLIC WORKS DEPARTMENT.

TABULAR STATEMENT OF MATTERS OF ROUTINE,

BUILDINGS AND ROADS,

FOR THE MONTH OF DECEMBER 1877.

GOVERNMENT OF MADRAS.

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
1	*Statement* showing the additional grants made by the Madras Government for Provincial Services in 1877-78, forwarded to the Government of India.	1st Dec. 1877. No. 1,900 W.	12th May 1871, Nos. 78, 79, Mis. 14th May 1877, No. 126 W, Mis. 13th Oct. 1877, No. 1,003 W, Mis.
2, 3	*Subordinate appointments made by the District Engineer, Coimbatore.*— Proceedings, Revenue Department, confirming the — reported in list, dated 19th November 1877, communicated to the District Engineer.	3rd do. do. No. 1,905 W.	....
4, 5	*Relief coolies of the Nellore Taluq.*—Orders in the Revenue Department regarding sanitary arrangements of the localities occupied by —. Lodged.	3rd do. do. No. 1,906 W.	....
6, 7	*Taluq School-house at Udumalpetta, Coimbatore District.*— Proceedings, Educational Department, sanctioning plan and estimate for improving and enlarging the —, communicated to the District Engineer.	3rd do. do. No. 1,907 W.	....
8, 9	*Buckingham Canal.*—Report of the number of coolies employed on the — during week ended 24th November 1877. Lodged.	3rd do. do. No. 1,908 W.	....
10, 11	*East Coast Canal, Chingleput District.*—Report on progress of clearing and extending the — for the week ended 17th November 1877. Lodged.	3rd do. do. No. 1,909 W.	....
12, 13	*Coolies from the Chepauk Relief Camp, Madras.*—Proceedings, Revenue Department, recording letter from the Superintending Engineer, Chingleput, regarding the admission on works of the —, communicated to the District Engineer.	3rd do. do. No. 1,910 W.	5th Oct. 1877, No. 882 W, Mis. 9th Nov. 1877, No. 1,567 W, Mis. 13th Nov. 1877, No. 1,639 W, Mis.

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
14, 15	*Tumkum Bungalow, Madura.*—The plans and estimates for emergent repairs to the — returned to the District Engineer with remarks.	3rd Dec. 1877, No. 1,911 W.	13th Sep. 1875, No. 79, Mis. 21st Aug. 1877, No. 151, Mis.
16, 17	*Muthusawmy Pillay, late Draftsman of No. 4 Survey Party, convicted of Forgery.*—Proceedings, Revenue Department, prohibiting the re-employment of — in the public service, communicated to the officers of the Public Works Department.	3rd do. do. No. 1,912 W.	....
18, 19	*Roads in Cocanada Circle, Godavery District.*—Proceedings, Financial Department, sanctioning estimates for completing certain —, communicated to the District Engineer.	3rd do. do. No. 1,917 W.	....
20, 21	*Weekly Map of Relief-works in progress in the Chingleput District.*—Proceedings, Revenue Department, directing the discontinuance in future of the submission of the —. Lodged.	3rd do. do. No. 1,918 W.	....
22, 23	*"Brennen property" at Tellicherry, Malabar District.*— Proceedings, Revenue Department, sanctioning the purchase of the —, communicated to the District Engineer.	3rd do. do. No. 1,924 W.	19th Nov. 1873, No. 131, Mis.
24, 25	*Mr. Supervisor Culliford and Mr. Overseer O'Sullivan.*—Letter from the District Engineer, Salem, forwarding for consideration a disallowance list from Examiner, Public Works Accounts, disallowing sub-divisional allowance to —. Lodged.	4th do. do. No. 1,935 W.	....
26, 27	*Public Works Code.*—Letter from the Examiner, Public Works Accounts, reporting that Part II of the — is ready for issue to the department. Recorded.	4th do. do. No. 1,936 W.	....
28, 29	*Road No. 4 from Maravancolum to Nullamanaickenputty, Madura District.*—Proceedings, Revenue Department, sanctioning estimate of Rupees 13,600 for repairing —, communicated to the District Engineer.	4th do. do. No. 1,937 W.	....
30, 31	*Roads in Coimbatore District.*—Proceedings, Revenue Department, sanctioning estimates for the construction, improvement, and repairs of and collection of metal on certain —, communicated to the District Engineer.	4th do. do. No. 1,938 W.	11th Oct. 1877, No. 977 W, Mis.

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
32, 33	*Lieutenant Grant, R.E.*— Proceedings, Revenue Department, sanctioning the employment of — as an Assistant to Captain Clarke on the Junction Canal, communicated to the District Engineer, Presidency, and to the Military Department.	4th Dec. 1877. No. 1,939 W.	....
34, 35	*Progress Reports of Relief-works.*—Proceedings, Revenue Department, communicating Order of 15th November 1877, No. 2,801, to the Collector and District Engineer, Madura, regarding the submission of —. Lodged.	4th do. do. No. 1,940 W.	....
36, 37	*East Coast Canal, Chingleput District.*—Report of progress on the — for the week ended 24th November 1877. Lodged.	4th do. do. No. 1,941 W.	....
38, 39	*Relief-works in the Cuddapah District.*—Report from the District Engineer of his having received charge from the Collector all —. Lodged.	4th do. do. No. 1,942 W.	....
40—43	*Government Bakery, Madras.*— Proceedings, Military Department, approving the estimate for constructing a new brick well in the —, communicated to the District Engineer, Presidency, for preparation of detailed estimate.	4th do. do. No. 1,943 W.	....
44, 45	*Imperial Budget Grant for* 1877-78.—The Government of India informed by telegraph of the revised estimates of —.	4th do. do. No. 1,944 W.	5th Nov. 1877, Nos. 1,485 W, 1,486 W.
46, 47	*Famine Relief operation in the Cuddapah Sub-division.*— Orders in the Revenue Department on report on — for October 1877. Recorded.	4th do. do. No. 1,946 W.	....
48, 49	*Relief Reports of the Kistna and Kurnool Districts* for the week ended 10th November 1877. Recorded.	4th do. do. No. 1,947 W.	....
50, 51	*Marandahully Survey, Salem District.*—Proceedings, Revenue Department, agreeing with the Chief Engineer in thinking that it is unadvisable to apply to Bengal for Surveyors for employment on the —, communicated to the District Engineer.	4th do. do. No. 1,948 W.	....
52, 53	*Relief operations, Bellary District.*—Orders in the Revenue Department on report on — for October 1877, communicated to the District Engineer.	4th do. do. No. 1,949 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
54, 55	*Relief operations in the Sub-Division of the Madura District.*— Orders in the Revenue Department on report on — for September 1877. Recorded.	4th Dec. 1877, No. 1,950 W.	....
56, 57	*Public Works Subordinates for the Salem District.*—Orders in the Revenue Department on District Engineer's letter requesting the assistance of —. Recorded.	4th do. do. No. 1,951 W.	....
58, 59	*Establishment employed on Famine Duty in Sub-Division of Chingleput.*— Proceedings, Revenue Department, on Mr. McCarthy's report regarding the dispensation of the —. Recorded.	4th do. do. No. 1,952 W.	....
60, 61	*Junction Canal.*— Proceedings, Revenue Department, passing the bill on account of compensation for land taken up during September 1877 for the —. Recorded.	4th do. do. No. 1,953 W.	....
62, 63	*Municipal Report.*— Proceedings, Financial Department, reviewing annual — of Trichinopoly Municipality for 1876-77. Recorded.	4th do. do. No. 1,954 W.	....
64, 65	*Do.*—Do. do. of Wallajapett Municipality for 1876-77. Recorded.	4th do. do. No. 1,955 W.	....
66, 67	*Relief Reports* for the week ended 10th November 1877. Recorded.	4th do. do. No. 1,956 W.	....
68, 69	*Powers of Collectors in sanctioning Estimates.* —Proceedings, Revenue Department, limiting the —, communicated to the District Engineers concerned.	4th do. do. No. 1,957 W.	24th Jan. 1877, No. 299, Mis.
70, 71	*Relief operations in the Budwail Taluq, Cuddapah District.*— Orders in the Revenue Department on report on the progress of — for September 1877. Recorded.	4th do. do. No. 1,958 W.	....
72, 73	*Relief operations in the Madura Taluq.*—Do. do. for October 1877. Recorded.	4th do. do. No. 1,959 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous orders.
74, 75	*Sappers and Miners.*—Proceedings, Revenue Department, approving the proposed transfer from the Kistna to the Salem District of the Company of —. Recorded.	4th Dec. 1877. No. 1,960 W.	27th Nov. 1877, No. 1,807 W, Mis.
76, 77	*Famine Establishments.*—Orders in the Revenue Department on the subject of curtailing —. Recorded.	4th do. do. No. 1,961 W.	....
78, 79	*Relief Establishments, North Arcot District.*—Proceedings, Revenue Department, sanctioning with observations and exceptions the — entertained by the Collector, communicated to the District Engineer.	4th do. do. No. 1,963 W.	....
80, 81	*Rifle Range at Cuttack.*— Proceedings, Military Department, sanctioning the payment of compensation for land taken up for the —. Lodged.	5th do. do. No. 1,967 W.	....
82, 83	*Funds.*—Proceedings, Financial Department, sanctioning certain transfer of —, communicated to the District Engineer, North Arcot.	5th do. do. No. 1,968 W.	27th Oct. 1877, No. 1,289 W.
84, 85	*Road from Vellore to Chittoor, North Arcot District.*— Proceedings, Revenue Department, sanctioning estimate for remetalling a portion of the — , communicated to the District Engineer.	5th do. do. No. 1,969 W.	....
86, 87	*Dutch Protestant Burial-ground at Porto Novo, South Arcot District.*—Proceedings, Ecclesiastical Department, sanctioning the purchase of certain land round the —. Lodged.	5th do. do. No. 1,970 W.	18th Aug. 1877, No. 156 W, Mis.
88, 89	*Laboratory Building, Government Farm, Chingleput District.*— Proceedings, Revenue Department, requesting a revision as indicated of the estimate for constructing a —, communicated to the Superintending Engineer.	5th do. do. No. 1,971 W.	....
90, 91	*Credit Orders.*— Statement showing the — granted for famine relief-works in and up to the end of the week ended 1st December 1877. Lodged.	5th do. do. No. 1,973 W.	....
92, 93	*Progress of Relief and the state of the season in the Oossoor and Kistnagherry Taluqs, Salem District.*—Orders in the Revenue Department on report on the — for October 1877, communicated to the District Engineer.	5th do. do. No. 1,974 W.	28th Oct. 1877, No. 801 W.

Back Numbers.	Subjects.	Number and date of Order.	Number and date of previous Orders.
94—96	*Deaths from hunger on the north flood bank, Nellore District.*—Orders in the Revenue Department on reports submitted by the Collector and District Engineer regarding the —, communicated to the District Engineer.	5th Dec. 1877, No. 1,975 W.	....
97, 98	*Grain.*—Orders in the Revenue Department regarding the adjustment of the value of the —, communicated to the District Engineer, Salem.	5th do. do. No. 1,976 W.	23rd Nov. 1877, No. 1,768 W, Mis.
99, 100	*Relief-works, Salem District.*— Orders in the Revenue Department on proposals of the District Engineer regarding the execution of, and payment for —, communicated to the District Engineer for guidance.	5th do. do. No. 1,977 W.	28th Sept. 1877, No. 801 W. 31st Oct. 1877, No. 1,368 W, Mis. 5th Nov. 1877, No. 1,495 W, Mis. 8th Nov. 1877, No. 465 I, Mis.
101—103	*Assistant Engineers Messrs. McMordie and Toogood.*—Advice of the services of — being placed at the disposal of the Government of Madras. Lodged.	5th do. do. No. 1,978 W.	....
104—106	*Assistant Engineers Messrs. Reid and Middleton.*—Do. do. do. Lodged.	5th do. do. No. 1,979 W.	....
107—109	*Mr. Assistant Engineer Christie.*— Do. do. do. Lodged.	5th do. do. No. 1,980 W.	....
110—112	*Serjeant Overseer Hitton.*—Do. do. do. Lodged.	5th do. do. No. 1,981 W.	....
113, 114	*Buckingham Canal.*— Telegram of 3rd instant reporting the number of coolies employed on the —. Lodged.	6th do. do. No. 1,982 W.	....
115, 116	*Subordinate Appointments made by the District Engineer, North Arcot.*— Proceedings, Revenue Department, confirming the — as reported in list dated 27th November 1877, communicated to the District Engineer.	6th do. do. No. 1,983 W.	....
117, 118	*Do. made by the District Engineer, Coimbatore.* —Do. do. do.	6th do. do. No. 1,984 W.	....
119, 120	*Roads in the Madura District.*— Proceedings, Revenue Department, cancelling the sanction accorded to the construction of certain —, communicated to the District Engineer.	6th do. do. No. 1,985 W.	27th Nov. 1877, No. 4,123, Memo. 2nd Nov. 1877, No. 3,687, Memo.
121, 122	*Bonus or Honorarium paid to a public officer.* — Resolution of the Government of India regarding the treatment in the accounts of —. Lodged.	7th do. do. No. 1,989 W.	7th Dec. 1873, No. 64, Mis. 27th Dec. 1875, No. 203, Mis. 29th Oct. 1877, No. 1,330 W, Mis.

Back Numbers.	Subjects.	Number and date of Order.	Number and date of previous Orders.
123—126	*Additional Engineer Officers for famine relief-works.*—Endorsement of the Chief Engineer for Irrigation transferring papers regarding the supply of —. Lodged.	7th Dec. 1877, No. 1,994 W.	29th Sept. 1877, No. 3,027, R. D.
127, 128	*Municipal Report.*— Proceedings, Financial Department, reviewing annual — of Combaconum Municipality for 1876-77. Recorded.	7th do. do. No. 1,995 W.	....
129, 130	*Do.* do. do. of Vellore Municipality for 1876-77. Recorded.	7th do. do. No. 1,996 W.	14th June 1876, No. 95, Mis. 5th Jan. 1877, No. 12, Mis.
131, 132	*Progress of Relief operations* of the Kurnool District for October 1877, communicated to the District Engineer.	7th do. do. No. 2,000 W.	....
133, 134	*Court-house at Tranquebar, Tanjore District.*— Proceedings, Judicial Department, sanctioning the transfer to the Public Works Department of the —, communicated to the District Engineer.	7th do. do. No. 2,001 W.	20th July 1876, No. 1,843. 10th Nov. 1877, No. 1,582 W.
135, 136	*Sappers and Miners employed on Famine Duty in the Chingleput District.*— Proceedings, Military Department, sanctioning working pay being drawn for the C. Company —, communicated to the Superintending Engineer.	7th do. do. No. 2,001A W.	....
137, 138	*Lists of Estimates forwarded by the Superintending Engineer for the countersignature of the Collector of Chingleput.*— Proceedings, Revenue Department, recording the — for the week ended 24th November, and directing the discontinuance of future submission, communicated to the Superintending Engineer for attention.	7th do. do. No. 2,002 W.	....
139, 140	*Cemeteries for Native Christian Communities.*— Proceedings, Ecclesiastical Department, communicating letter from Government of India requesting that an addition be made to Home Department Resolution regarding —, communicated to District Engineer.	7th do. do. No. 2,003 W.	4th Dec. 1876, No. 29, Mis.
141, 142	*Monsieur A. deScala.*— Proceedings, Public Department, communicating letter from the Government of Bombay requesting that assistance may be afforded to — deputed by the Directors of the Oriental Museum at Vienna to this country in view to the study of its commercial statistics, &c., communicated to District Engineers.	7th do. do. No. 2,004 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
143, 144	*Lotteries and Race-sweeps.*—Proceedings, Judicial Department, communicating Resolution of the Government of India requesting to enforce the law prohibiting the publication of advertisements of —, communicated to all officers of the department.	7th Dec. 1877. No. 2,005 W.	....
145, 146	*Sub-divisional Allowance.*— Orders in the Revenue Department regarding the grant of — to Overseers transferred from other Provinces for famine relief duty, communicated to the Examiner, Public Works Accounts.	7th do. do. No. 2,006 W.	....
147, 148	*Season.*—Proceedings, Revenue Department, communicating to the Board of Revenue telegrams from Collectors reporting the state of the —, communicated to the District Engineers concerned.	7th do. do. No. 2,007 W.	....
149, 150	*Messrs. Chokalingum Pillay and Co.*— Messrs. Tasker and Wilson referred to the Government Solicitor for settlement of the claims to interest of — , authority granted for payment of the deposit of Rupees 500 to —.	7th do. do. No. 2,008 W.	....
151, 152	*Do.*—The Government Solicitor furnished with all papers and directed to take up the further adjustment of the claims to interest preferred by —.	7th do. do. No. 2,009 W.	....
153, 154	*Bengal Public Works Officers.*—The Government of Bengal informed by telegraph that the probability of the time when the — are likely to return from famine works cannot be indicated for another fortnight.	7th do. do. No. 2,010 W.	....
155	*Do.*—The Government of Bengal informed by letter regarding the above subject.	7th do. do. No. 2,011 W.	....
156, 157	*Vellore Fort Ditch, North Arcot District.*— Proceedings, Revenue Department, recording letter from the Collector reporting suspension of the work of clearing the — , communicated to the District Engineer.	8th do. do. No. 2,014 W.	....
158, 159	*Amiajee Row, Gumastah, Cuddapah District.*— Proceedings, Pension Department, sanctioning the retention in the service of — for such period as may be necessary to enable him to complete the term qualifying for pension, communicated to all officers of the department.	8th do. do. No. 2,015 W.	....
160, 161	*Provincial allotments under Tools and Plant.*— Certain modifications of — proposed by the District Engineer, Chingleput, sanctioned.	8th do. do. No 2,019 W.	....

Back Numbers.	Subject.	Number and date of Order.	Number and dates of previous Orders.
162, 163	*Absentee who has obtained leave without pay.*—Proceedings, Financial Department, communicating Resolution of the Government of India regarding the distribution among other clerks of the salary of an —. Lodged.	8th Dec. 1877. No. 2,020 W.	7th Dec. 1877, No. 1,998 W.
164, 165	*Buckingham Canal.*—Report of the number of coolies employed on the — during week ended 1st December 1877. Lodged.	8th do. do. No. 2,021 W.	3rd Dec. 1877, No. 1,908 W, Mis.
166, 167	*M. Rajagopala Pillay, Vernacular Clerk in the Collector's Office, Chingleput.*—Proceedings, Pension Department, sanctioning the retention in the service of — for such period as may be necessary to enable him to complete the term for the higher pension, communicated to all officers of the Department.	8th do. do. No. 2,022 W.	....
168, 169	*State Telegrams.*— Proceedings, Financial Department, communicating Resolution of Government of India directing that no charges shall be entered in any contingent bill for any other than —, communicated to the officers of the Public Works Department.	8th do do. No. 2,025 W.	....
170—173	*Mr. Brooks' charges.*— Explanation from Mr. O'Shaughnessy, the District Engineer, Nellore, regarding —. Recorded.	10th do. do. No. 2,027 W.	27th June 1877, No. 315 W.
174, 175	*Provincial Allotments under Tools and Plant.*—Certain modification of — proposed by the District Engineer, Coimbatore. Sanctioned.	10th do. do. No. 2,034 W.	....
176, 177	*Subordinate appointments made by the Superintending Engineer, Chingleput.*—Proceedings, Revenue Department, confirming the — reported in list dated 12th November 1877, communicated to the District Engineer.	10th do. do. No. 2,035 W.	....
178, 179	*Old Famine Relief Camp behind the Municipal Hospital at Trichinopoly.*— Proceedings, Revenue Department, sanctioning the estimate for digging over the site of the —, communicated to the District Engineer.	10th do. do. No. 2,036 W.	....
180, 181	*Short service system.*— Correspondence from the Government of India regarding reduction of the number of married soldiers in the British Army of India by the introduction of the —. Recorded.	10th do. do. No. 2,037 W.	....

Back Numbers.	Subject.	Number and date of Order.	Number and dates of previous Orders.
182, 183	*Common Jury.*—The Sheriff of Madras furnished with a statement showing the names of persons in the Public Works Department of the Government Secretariat who are qualified and liable to serve on the —.	10th Dec. 1877, No. 2,039 W.	6th Dec. 1876, No. 47, Mis.
184, 185	*Sending relief Coolies to works with Nominal Rolls.*—Proceedings, Revenue Department, on letter from the Superintending Engineer, Chingleput, on the subject of —. Recorded.	10th do. do. No. 2,040 W.	....
186, 187	*Relief-works in the Cuddapah Taluq.*—Orders in the Revenue Department on report on the progress of — during the month ending 26th October 1877. Recorded.	10th do. do. No. 2,041 W.	....
188, 189	*Failure of the north-east monsoon in the Vizagapatam District.*—Orders in the Revenue Department on letter from the Collectors reporting the —, communicated to the District Engineer.	10th do. do. No. 2,042 W.	....
190, 191	*Buildings of Historical or Architectural interest in the Madras Presidency.*— Orders in the Revenue Department on Proceedings, Board of Revenue, submitting reports from Collectors regarding —, communicated to officers of the department.	10th do. do. No. 2,043 W.	....
192, 193	*Provincial Allotments.*— Certain modifications of — proposed by the District Engineer, Tinnevelly. Sanctioned.	10th do. do. No. 2,044 W.	10th Nov. 1877, No. 1,580 W.
194, 195	*Road from the foot of the Hassanoor Ghaut to the Mysore Frontier, Coimbatore District.*—Proceedings, Revenue Department, sanctioning estimate for repairing the —, communicated to the District Engineer.	11th do. do. No. 2,045 W.	....
196, 197	*Subordinate appointments made by the District Engineer, North Arcot.*—Proceedings, Revenue Department, confirming the — reported in list dated 3rd December 1877, communicated to the District Engineer.	11th do. do. No. 2,046 W.	....
198, 199	*Buildings and Roads Budget Estimate of Receipts,* 1877-78.—The Government of India informed by telegraph of the cause of decrease in the —.	11th do. do. No. 2,047 W.	5th Nov. 1877, Nos. 1,485 W, 1,486 W.
200, 201	*Provincial Allotments.*— Certain modifications of — proposed by the District Engineer, Ganjam. Sanctioned.	11th do. do. No. 2,048 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
202, 203	*Scope and nature of the operations of the Revenue Survey Department.*— Proceedings, Revenue Department, resolving to forward to the Quartermaster-General in India letter from the Acting Superintendent of Revenue Survey submitting a report regarding the —. Recorded.	12th Dec. 1877. No. 2,049 W.	....
204, 205	*Preservation of wood during seasoning.*—Proceedings, Military Department, sanctioning the discontinuance at Madras of the use of muriatic acid and lime for the —, communicated to District Engineers for their information.	12th do. do. No. 2,050 W.	16th Mar. 1875, No. 136, Mis.
206, 207	*Cinchona Bark and Powder.* —Proceedings, Revenue Department, authorising the issue of — to all Police Stations and Famine Relief Officers in districts where fever is prevalent, communicated to all District Engineers.	12th do. do. No. 2,051 W.	....
208, 209	*List of abbreviations adopted by the Telegraph Department.*—Proceedings, Marine Department, communicating memorandum from Government of India directing that in future the word "Marine" in the — be understood as applying to the Superintendent of Marine and the word "Port" to Port Officers. Lodged.	12th do. do. No. 2,052 W.	....
210, 211	*Relief Operations in the Tirumangalum and Pereacolum Taluqs, Madura District.*— Orders in the Revenue Department on report on — for the month of October 1877. Recorded.	12th do. do. No. 2,053 W.	....
212, 213	*Do. in the Adoni Taluq, Bellary District.*— Do. do. do. Recorded.	12th do. do. No. 2,054 W.	....
214, 215	*Do. in the Melur Taluq, Madura District.*— Do. do. do. Recorded.	12th do. do. No. 2,055 W.	....
216, 217	*Major Pennycuick, R.E.*— Proceedings, Military Department, considering—liable to pay donation to the Mess of the "Queen's Own" Sappers and Miners, and directing the Public Works Department to recover from that officer the amount, Rupees 42, payable by him on promotion, communicated to the officer concerned.	12th do. do. No. 2,056 W.	....
218, 219	*Statement of Payments* made in England on account of stores and freight, &c., during the month of October 1877 (Madras Harbour Works), communicated to the officers concerned.	12th do. do. No. 2,057 W.	....

Back Numbers.	Subject.	Number and date of Orders.	Numbers and dates of previous Orders.
220, 221	*Statement of payments* made in England on account of stores and freight, &c., during the month of October 1877 (expenditure consequent on famine in Madras), communicated to the officers concerned.	12th Dec. 1877. No. 2,058 W.	....
222, 223	*Do. do.*—Do. do. do. (Dowlaishweram Workshops), do. do.	12th do. do. No. 2,059 W.	....
224, 225	*Supply Channel from Ulsoor Tank to Dhobies' Wells, Bangalore.*—Letter from the District Engineer reporting that the cutting and deepening the — is included in the general estimate for Ulsoor Water Works. Lodged.	12th do. do. No. 2,060 W.	4th Dec. 1877, No. 1,925 W.
226, 227	*Relief-works, Chingleput District.*—Proceedings, Revenue Department, communicating letter from the Collector requesting a correction being made in a previous letter of the number of coolies employed upon —. Lodged.	12th do. do. No. 2,061 W.	3rd Dec. 1877, No. 1,918 W, Mis.
228, 229	*Elk Hill cutting at the entrance into Ootacamund from the Coonoor side.*— Proceedings, Judicial Department, directing the Inspector-General of Jails to place all the available convict labor at the disposal of the District Engineer for the completion of the work of removing the earth on the south side of the highest portion of the —, communicated to the District Engineer.	12th do. do. No. 2,063 W.	8th Dec. 1877, No. 2,024 W.
230, 231	*Road from Maderpauk to Kollakuppam, North Arcot District.*—Proceedings, Revenue Department, sanctioning the estimate for the construction of a —, communicated to the District Engineer.	12th do do. No. 2,064 W.	....
232, 233	*Relief-works in the Bellary District.*— Proceedings, Revenue Department, directing the transfer to the Public Works Department of all important — . Lodged.	12th do. do. No. 2,065 W.	28th Sept. 1877, No. 801 W. 19th Nov. 1877, No. 1,717 W, Mis. 20th Nov. 1877, No. 1,726 W, Mis.
234, 235	*Trunk Road between Tuni and Nakapully, Vizagapatam District.*—Proceedings, Financial Department, sanctioning revised estimate for special repairs to the —, communicated to the District Engineer.	12th do. do. No. 2,066 W.	13th Nov. 1877, No. 1,622 W.
236	*Mr. F. Pope, Draughtsman of the Lithographic Department.*—The Registrar of the High Court requested to furnish the schedule of — who recently passed through the Insolvent Court.	12th do. do. No. 2,067 W.	....

Back numbers.	Subject.	Number and date of Order.	Number and date of previous Orders.
237, 238	*East Coast Canal, Chingleput District.*—Progress Report of clearing and extending the — for week ended 1st December 1877. Lodged.	13th Dec. 1877, No. 2,072 W.	4th Dec. 1877, No. 1,941 W, Mis
239—241	*Promotion of Superior Officers of the Accounts Branch.*— Ruling of the Government of India relative to the —. Lodged.	13th do. do. No. 2,077 W.	....
242, 243	*Late Serjeant Haining and Supervisor Caldwell employed on famine duty in the Salem District.*—Proceedings, Revenue Department, sanctioning the erection of tomb-stones to the memory of the —, communicated to the District Engineer.	13th do. do. No. 2,078 W.	....
244, 245	*Imperial Allotments.*—Certain modification of — proposed by the District Engineer, Vizagapatam. Sanctioned.	13th do. do. No. 2,081 W.	....
246, 247	*Stone-breaking works in the Madura Taluq.*—Mr. Supervisor Hicken posted to the Madura District in connection with the execution, &c., of the —.	13th do. do. No. 2,082 W.	7th Nov. 1877, No. 1,536 W, Mis.
248, 249	*Relief-works at Oossoor, Salem District.*—Proceedings, Revenue Department, sanctioning with observation a sum of Rupees 200 to enable the Remount Agent to carry out certain —. Recorded.	13th do. do. No. 2,084 W.	30th Jan. 1877, No. 326 F.D.
250, 251	*Outbreaks of cholera or small-pox among the Civil population.*— Proceedings, Public Department, communicating Resolution of Government of India inviting attention to the general principles which ought to be observed in dealing with —, communicated to District Engineers.	14th do. do. No. 2,085 W.	26th Oct. 1877, No. 1,280 W, Mi.
252, 253	*Relief operations in the Shevagunga Zemindary, Madura District.*—Orders in the Revenue Department on report on — for October 1877. Recorded.	14th do. do. No. 2,086 W.	....
254, 255	*East Coast Canal Works, Chingleput District.*—Proceedings, Revenue Department, sanctioning with remarks an allowance of Rupees 20 per mensem on account of office rent to Mr. Special Assistant Engineer Watson employed on the —, communicated to the Superintending Engineer.	14th do. do. No. 2,087 W.	....

Back Numbers.	Subject.	Number and Date of Order.	Numbers and dates of previous Orders.
256, 257	*Season.*— Proceedings, Revenue Department, communicating to the Board of Revenue telegrams from Collectors reporting the state of the —. Recorded.	14th Dec. 1877, No. 2,088 W.	....
258, 259	*Famine Expenditure.*— Proceedings, Financial Department, communicating letter from Government of India requesting issue of orders for the adjustment in the accounts of 1876-77 of — incurred during that year. Recorded.	14th do. do. No. 2,089 W.	21st June 1877, No. 139 W, Mis. 4th Dec 1877, No. 571 I. 27th Nov. 1877, No. 1,816 W, Mis.
260, 261	*Skittle Alleys in the Vellore Fort, North Arcot District.*— Proceedings, Military Department, sanctioning the demolition of certain —, communicated to the District Engineer.	14th do. do. No. 2,090 W.	....
262, 263	*Able-bodied paupers from the Cortelliar Relief Camp, Chingleput District.*— Proceedings, Revenue Department, recording letter from the Superintending Engineer relative to the employment of the —, communicated to the Superintending Engineer.	14th do. do. No. 2,091 W.	....
264, 265	*Municipal Report.*— Proceedings, Financial Department, reviewing the annual — of Ellore Municipality for 1876-77, communicated to the District Engineer.	14th do. do. No. 2,092 W.	....
266, 267	*Relief-works or charitable relief in the Vizagapatam District.*— Proceedings, Revenue Department, stating that no — involving expenditure beyond the limit of funds at the Local Fund Board's disposal should be begun without the express sanction of Government, communicated to the District Engineer.	14th do. do. No. 2,093 W.	....
268, 269	*Relief Reports of the Kistna and Kurnool Districts* for the week ended 17th November 1877, communicated to District Engineers concerned.	14th do. do. No. 2,094 W.	....
270, 271	*Lieutenant-Colonel A. de C. Scott, R.E.*—Proceeindgs, Military Department, communicating extracts from a Military Despatch from the Home Government on the subject of the retention of the services in India of —. Recorded.	14th do. do. No. 2,095 W.	....
272, 273	*Imperial Allotments.*—Certain modifications of — proposed by the District Engineer, Bellary, sanctioned, subject to the approval of the Government of India.	14th do. do. No. 2,100 W.	....

Back numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
274, 275	*Credit Orders.*—Statement showing the — for famine relief works in and up to the end of the week ending 8th December 1877.	14th Dec. 1877, No. 2,101 W.	5th Dec. 1877, No. 1,973 W, Ms.
	Lodged.		
276, 277	*Subordinate appointments made by the District Engineer, Coimbatore.*—Proceedings, Revenue Department, confirming the — reported in list dated 4th December 1877, communicated to the District Engineer.	14th do. do. No. 2,102 W.	....
278, 279	*Local Fund Budget.*— Proceedings, Financial Department, reviewing the — of Pennacondah Circle for 1878-79, communicated to the District Engineer, Bellary.	14th do. do. No. 2,103 W.	....
280, 281	*Do.*—Do. do. of Bellary Circle for 1878-79, communicated to the District Engineer, Bellary.	14th do. do. No. 2,104 W.	....
282, 283	*Municipal Report.*— Proceedings, Financial Department, reviewing the annual — of Chicacole Municipality for 1876-77.	14th do. do. No. 2,105 W.	....
	Recorded.		
284, 285	*Boundary between the Bustar State and the Bhadrachalam Taluq, Godavery District.*—Proceedings, Political Department, communicating with instructions letter from the Government of India sanctioning the deputation of Mr. Foster, Collector of Godavery District, as sole arbitrator for the settlement of the dispute regarding the —, communicated to the District Engineer with instructions.	14th do. do. No. 2,106 W.	....
286, 287	*Emaciated wanderers that may be found in Madras.*—Proceedings, Revenue Department, issuing instructions to the Commissioner of Police relative to the relegation to the Red Hills Camp of any —, communicated to the officers concerned.	14th do. do. No. 2,107 W.	28th Aug. 1877, No. 2,593. 30th Nov. 1877, No. 1,886 W, Mis.
288, 289	*Christian Burial-grounds in Salem District.*—Proceedings, Ecclesiastical Department, communicating report on — for the official year 1876-77, communicated to the District Engineer with remarks.	14th do. do. No. 2,108 W.	3rd June 1876, No. 28, Mis.
290, 291	*Stationery and furniture required for Famine Relief Officers.*—Orders in the Revenue Department on the subject of purchasing from local markets —, communicated to the Examiner of Public Works Account and to all District Engineers.	14th do. do. No. 2,111 W.	11th Oct. 1877, No. 3,193 Memo. 22nd Oct. 1877, No. 1,159 W. 10th Nov 1877, No. 3,805 Memo. 24th Oct. 1877, No. 1,218 W, Mis. 6th Nov. 1877, No. 1,511 W, Mis.

Back numbers.	Subjects.	Number and date of Order.	Numbers and dates of previous Orders.
292, 293	*Municipal Report.*—Proceedings, Financial Department, reviewing the annual — of Mayeram Municipality for 1876-77, communicated to the District Engineer, Tanjore.	15th Dec. 1877, No. 2,112 W.	....
294, 295	*Purchase of Horse-box.*—Letter from the District Engineer, Trichinopoly, requesting sanction for the charge made by Mr. Assistant Engineer Parsick for the —. Lodged.	15th do. do. No. 2,113 W.	13th Nov. 1877, No. 1,625 W. 7th Dec. 1877, Nos. 1,991 W, and 1,992 W.
296, 297	*Junction Canal.*— Progress report of the — for the week ended 8th December 1877. Lodged.	15th do. do. No. 2,114 W.	28th Nov. 1877, No. 1,823 W, Mis.
298, 299	*Central Jail, Vellore, North Arcot District.*— Letter from the District Engineer reporting that the revised estimate will be sent in very shortly for the excess expenditure on the —. Lodged.	15th do. do. No. 2,115 W.	13th Nov. 1877, No. 1,626 W.
300, 301	*Correspondence.*—The Examiner, Madras Irrigation and Canal Company's Accounts, furnished with copy of G.O., No. 336 I, dated 22nd September 1877.	15th do. do. No. 2,117 W.	....
302, 303	*Road from Chittoor to the Bombay Frontier viâ Madanapalli and Kadiri, Cuddapah District.*— Proceedings, Revenue Department, sanctioning estimate for collecting materials on the — , communicated to the District Engineer.	15th do. do. No. 2,119 W.	....
304, 305	*Subordinate appointments made by the District Engineer, Coimbatore.*—Proceedings, Revenue Department, confirming the — reported in list dated 4th December 1877, communicated to the District Engineer.	15th do. do. No. 2,120 W.	....
306, 307	*Statement of Payments* made in England on account of stores and freight, &c., during the month of October 1877, (Madras Public Works Ordinary) communicated to the officers concerned.	15th do. do. No. 2,221 W.	....
308, 309	*Do. do.*—Do. do. do. (Provincial and Local Funds, Madras Public Works), do. do.	15th do. do. No. 2,122 W.	....
310, 311	*Mr. Assistant Engineer Parsick.*— Endorsement of the Government of India forwarding communication from the Government of Bengal relative to certain payment to be made by — , communicated to the District Engineer, Trichinopoly, and the Examiner.	15th do. do. No. 2,123 W.	....

Back numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
312—314	*Mr. Lyon's* pay for the months of October and November 1877 to be disbursed in full.	15th Dec. 1877, No. 2,124 W.	1st Dec. 1877, No. 1,901 W.
315, 316	*Gun Powder.*—Proceedings, Military Department, directing the sale of certain — , communicated to District Engineers with remarks.	17th do. do. No. 2,126 W.	....
317, 318	*Famine Relief Operations in Salem.*—Orders in the Revenue Department on report dated 10th November 1877, on —, communicated to the District Engineer.	17th do. do. No. 2,127 W.	....
319, 320	*Skilled Artificers of Garrison Batteries.*—Proceedings, Military Department, communicating letter from the Government of India regarding the rates of working pay to be passed to —, communicated to the Examiner of Public Works Accounts.	17th do. do. No. 2,128 W.	13th Sept. 1877, No. 107 W Mis. 8th Nov. 1877, No. 1,552 W, Mis.
321, 322	*Road from Ranipett to Bombay as far as Palmanair, North Arcot District.*— Proceedings, Revenue Department, recording report of the work of collecting stone and gravel and improving the — being put in hand. Recorded.	17th do. do. No. 2,129 W.	....
323, 324	*Relief Operations in the Ramnad Estate, Madura District.*— Orders in the Revenue Department on report on — for October 1877. Recorded.	17th do. do. No. 2,130 W.	....
325, 326	*Unserviceable Tools issued for Famine Relief purposes in the Cuddapah District.*—Orders in the Revenue Department relative to the disposal of —, communicated to the District Engineer.	17th do. do. No. 2,131 W.	....
327, 328	*Mr. Overseer Arbuthnott, Bellary District,* granted an advance of Rupees 200.	17th do. do. No. 2,138 W.	....
329, 330	*Disastrous floods in Nangvneri and Tenkarai, Tinnevelly District.*—Proceedings, Revenue Department, recording telegram from the Collector reporting —. Recorded.	17th do. do. No. 2,139 W.	....
331, 332	*Local Fund Budget.*— Proceedings, Financial Department reviewing the — of Tinnevelly Circle for 1878-79, communicated to the District Engineer.	17th do. do. No. 2,140 W.	....
333, 334	*Relief Reports* for the week ended 24th November 1877, communicated to District Engineers concerned.	18th do. do. No. 2,141 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
335, 336	*Official Libraries.*— Proceedings, Public Department, communicating Resolution of Government of India respecting the Exercise of a systematic control over —, communicated to District Engineers for report.	18th Dec. 1877, No. 2,142 W.	24th Nov. 1876. No. 3,154. 10th Oct. 1876, No. 1,161, P. D.
339, 340	*Lieutenant Christie, R.E., Deputy Examiner of Public Works Accounts.*—The Government of India informed by telegraph of the approval of this Government to the transfer of —to Calcutta, and appointment of Lieutenant Branclerk, R.E., to Madras.	18th do. do. No. 2,143 W.	....
341, 342	*Mr. F. Pope, Draughtsman, Lithographic Department,* who passed through the Insolvent Court, permitted to rejoin his appointment.	18th do. do. No. 2,153 W.	....
343, 344	*C. P. Anantha Charloo, late Sub-Division Writer, Tanjore District.*—Petition from — stating that he intends proceeding to England to lay his case before the Secretary of State for India, and requesting copies of all correspondence concerning him. Lodged.	18th do. do. No. 2,154 W.	9th Nov. 1877, No. 1,563 W.
345, 346	*Municipal Report.*— Proceedings, Financial Department, reviewing the annual — of Guntoor Municipality for 1876-77, communicated to the District Engineer, Kistna.	19th do. do. No. 2,158 W.	....
347, 348	*Do.*—Do. do. of Madura, do., communicated to the District Engineer.	19th do. do. No. 2,159 W.	....
349, 35	*Reserve Grain in the Bellary District.*—Orders in the Revenue Department regarding the disposal of —, communicated to the District-Engineer.	19th do. do. No. 2,160 W.	....
351, 352	*Municipal Report.*—Proceedings, Financial Department, reviewing the annual— of Anantapore Municipality for 1876-77, communicated to the District Engineer, Bellary.	19th do. do. No. 2,161 W.	....
353, 354	*Do.*—Do. do. of Salem Municipality for 1876-77, communicated to the District Engineer.	19th do. do. No. 2,162 W.	....
355, 356	*Do.*— Do. do. of Nellore, do. do.	19th do do. No. 2,163 W.	....
357, 358	*Pension, &c.*— Proceedings, Pension Department requesting all Heads of Departments to take measures to have the services of public servants duly verified for — before steps are taken compromising their pension, communicated to the Officers of the Public Works Department.	19th do. do. No. 2,164 W.	....

Back numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
359, 360	*Roads from Dharapuram towards Dindigul and Pulney, Coimbatore District.*— Proceedings, Revenue Department, sanctioning estimates for storing metal on the new — , communicated to the District Engineer.	19th Dec. 1877, No. 2,165 W.	....
361, 362	*Shunmooganuddee Projects, Madura District.* —Proceedings, Revenue Department, sanctioning establishment for the investigation of the —, communicated to the District Engineer.	19th do. do. No. 2,166 W.	....
363, 364	*Road from Madura to Tirumangalum.*—Proceedings, Financial Department, sanctioning certain transfer of funds and cancelling the sanction accorded to the estimate for metalling the — , communicated to the District Engineer.	19th do. do. No. 2,167 W.	12th Feb. 1877, No. 176, Mis.
365, 366	*Famine Relief Officer Mr. Goodsir of the Kurnool District.*— Proceedings, Revenue Department, declining to accede to the request of — to be allowed Rupees 100 for the repair of a tent. Lodged.	19th do. do. No. 2,168 W.	....
367, 368	*Mamooties supplied to the Chief Engineer, South Indian Railway.*— Proceedings, Revenue Department, issuing instructions for the adjustment of the charge on account of the — . Lodged.	19th do. do. No. 2,169 W.	... ...
369, 370	*Hill Jail at Parvatipore, Vizagapatam District.*—Letter from the District Engineer suggesting reduction in the allotment for a building for Warders attached to the —. Lodged.	19th do. do. No. 2,170 W.	29th June 1877, No. 334 W. 13th Oct. 1877, No. 1,011 W. 23rd Nov. 1877, No. 1,778 W, Mis. 29th May 1877, No. 164 W.
371, 372	*East Coast Canal, Chingleput District.*—Progress report of the — for the week ended 8th December 1877. Lodged.	19th do. do. No. 2,171 W.	13th Dec. 1877, No. 2,072 W, Mis.
373, 374	*Junction Canal.*—Progress Report of the — for the week ended 15th December 1877. Lodged.	19th do. do. No. 2,173 W.	15th Dec. 1877, No. 2,114 W, Mis.
375, 376	*Mrs. Cotton.*—Orders in the Revenue Department regarding payment of passage money of — , communicated to the Examiner of Public Works Accounts.	19th do. do. No. 2,174 W.	....
377, 378	*Famine Relief Officers in the Bellary District.*— Proceedings, Revenue Department, approving of the Collector's action in dispensing with the services of certain —. Recorded.	19th do. do. No. 2,175 W.	....

Back numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
379, 380	*Special Establishments entertained in the Trichinopoly District.*—Proceedings, Revenue Department, sanctioning certain —, communicated to District Engineers.	19th Dec. 1877, No. 2,176 W.	....
381, 382	*Junction Canal.*— Proceedings, Revenue Department, passing the bill for compensation on account of land taken up in October 1877 for the —, communicated to the District Engineer, Presidency.	19th do. do. No. 2,177 W.	....
383, 384	*Buckingham Canal.*— Telegram of 17th instant reporting the number of coolies employed on the —. Lodged.	19th do. do. No. 2,178 W.	....
385, 386	*Pay and Contingent Charges.*—Proceedings, Judicial Department, approving instructions issued by the Accountant-General regarding the disbursements of —, communicated to District Engineers.	19th do do. No. 2,179 W.	....
387, 388	*Relief Reports of the Kistna and Kurnool Districts* for the week ended 24th November 1877, communicated to District Engineers concerned.	19th do. do. No. 2,180 W.	....
389, 390	*Quarterly Vernacular Examination.*—Memorandum of the arrangements made for the approaching —, communicated to the District Engineers concerned.	19th do. do. No. 2,181 W.	14th Dec. 1877, No. 4,459, Memo.
391, 392	*Relief Works in the South Arcot District.*—Proceedings, Revenue Department, declining to sanction the closing of the —, communicated to the District Engineer.	19th do. do. No. 2,182 W.	....
393, 394	*Correspondence.*— Proceedings, Financial Department, directing the reprinting and supply to the department of 13 copies of certain order in their department. Lodged.	19th do. do. No. 2,183 W.	14th Dec. 1877, No. 4,445 Memo.
395, 396	*Reappropriation of Budget Grant.*—An application made to the Government of India for a —.	19th do. do. No. 2,184 W.	7th Aug. 1877, No. 559 W. 9th Oct. 1877, No. 941 W. 29th Nov. 1877, No. 1,866 W. 4th Dec. 1877, No. 1,966 W. 22nd Nov. 1877, No. 1,764 W, Mis.

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
397, 398	*Sub-Magistrate's Cutcherry at Madura.*— Proceedings, Revenue Department, stating that no provision has been made for the construction of a new —. Lodged.	20th Dec. 1877. No. 2,185 W.	13th Dec. 1877, No. 2,075 W.
399, 400	*Provincial Allotments.*— Certain modification of — proposed by the District Engineer, Chingleput, sanctioned.	20th do. do. No. 2,186 W.	....
401, 402	*State of the Vizagapatam District.*— Orders in the Revenue Department on report on the —, communicated to the District Engineer.	20th do. do. No. 2,191 W.	....
403, 404	*Relief Works in the Bellary and Adoni Taluqs.* —Proceedings, Revenue Department, inquiring whether there is necessity any for —. Recorded.	20th do. do. No. 2,192 W.	....
405, 406	*Reserve stock of grain in the Nilgiri District.* —Orders in the Revenue Department regarding the disposal of —. Recorded.	20th do. do. No. 2,193 W.	....
407, 408	*Fortnightly Narrative of the Nellore District.* —Orders in the Revenue Department on the — for the fortnight ended 24th November 1877, communicated to the District Engineer for report on paragraph 3.	20th do. do. No. 2,194 W.	....
409, 410	*Imperial Allotments.*— Certain modification of — proposed by the District Engineer, Malabar, sanctioned.	20th do. do. No. 2,195 W.	....
411—413	*Engineer and Subordinate Establishments.* — Certain District Engineers telegraphed to send such spare — as may be applied for by the District Engineers, Madura and Tinnevelly, to repair breaches.	21st do. do. No. 2,196 W.	....
414—417	*Christmas holidays.*—Proceedings, Public Department directing that no officers be granted —, communicated to the officers of the Public Works Department.	21st do. do. No. 2,198 W.	....
418, 419	*Advance.*—Proceedings, Revenue Department, sanctioning an — of Rupees 25,000 to District Engineer, Tinnevelly, instead of 20,000 to Tahsildar of Nanguneri, communicated to the District Engineer and to Chief Engineer for Irrigation.	21st do. do. No. 2,199 W.	....
420, 421	*Mr. Wilson, Assistant Examiner of Public Works Accounts.*—Letter from the Examiner informing that — has been deputed to inspect the Putthur Divisional accounts. Lodged.	21st do. do. No. 2,200 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
422, 423	*Budget Estimate.*— Proceedings, Financial Department, reviewing the — of "Petty Construction and Repairs" in the hill tracts of Vizagapatam for 1878-79, communicated to the District Engineer.	21st Dec. 1877, No. 2,201 W.	12th June 1874, No. 137, Mis. 2nd Dec. 1875, No. 19, Mis. 2nd Mar. 1876, No. 13, Mis. 20th Mar. 1877, No. 260, Mis.
424, 425	*Officers and Subordinates from other Provinces employed on famine duty in the South Arcot District.*— Proceedings, Revenue Department, sanctioning the purchase of such furniture only as is essentially and absolutely necessary for the —, communicated to District Engineers.	21st do. do. No. 2,202 W.	....
426, 427	*Mr. Brook's* request to be furnished with certain official document respecting Mr. O'Shaughnessy's travelling allowance considered inadmissible.	21st do. do. No. 2,203 W.	1st Dec. 1877, No. 1,902 W. 1st Aug. 1876, No. 1,946. 27th June 1877, No. 315 W. 6th Aug. 1877, No. 550 W. 29th Oct. 1877, No. 3,623, Memo. 4th Dec. 1877, No. 4,285, Memo.
428, 429	Confidential.	21st do. do. No. 2,206 W.	....
430	*Mr. Assistant Engineer Chancellor's* death reported to the Government of India in the usual form.	21st do. do. No. 2,207 W.	30th June 1870, No. 989 R.D.
431, 432	*Famine Accounts of the Bellary District.*— Proceedings, Revenue Department, appointing Mr. W. B. Oldham to the duty of supervising the compilation of the — communicated to the District Engineer, Bellary.	22nd do. do. No. 2,209 W.	....
433, 434	*School-house at Ellamanchilly, Vizagapatam District.*—Proceedings, Educational Department, intimating that the provision for a latrine or other out-houses for the — is unnecessary, communicated to the District Engineer.	22nd do. do. No. 2,210 W.	5th Nov. 1877, No. 1,468 W, Mis.
435, 436	*Famine administration of the Madrantacum Taluq, Chingleput District.*— Proceedings, Revenue Department, recording report on — for Nov. 1877. Recorded.	22nd do. do. No. 2,211 W.	....
437, 438	*Porto-Novo Canal and Coleroon Embankment Relief works.*—Orders in the Revenue Department regarding —, communicated to the District Engineer, South Arcot.	22nd do. do. No. 2,212 W.	....
439, 440	*Relief Reports* for the week ended 1st December 1877, communicated to the District Engineers concerned.	22nd do. do. No 2,213 W.	....

Back Numbers.	Subject.	Number and date of Order.	Number and dates of previous Orders.
441, 442	*Gun Carriage Superintendent's House, Madras.* —Letter from the Examiner of Public Works Accounts pointing out the necessity for the confirmation of the Government of India being obtained for the appropriation of funds made for the execution of emergent repairs to the —. Lodged.	22nd Dec. 1877, No. 2,214 W.	7th Aug. 1877, No. 559 W. 29th Nov. 1877, No. 1,866 W. 4th Dec. 1877, No. 1,966 W. 19th Dec. 1877, No. 2,184 W.
443, 444	*Spare copies of Government Orders.*— Letter from the District Engineer, South Arcot, suggesting that a pencil note be made at the foot of the original Government Order as to whether — are available or not. Lodged.	22nd do. do. No. 2,215 W.	....
445, 446	*Major Cox's Tomb at Vizagapatam.*—Proceedings, Ecclesiastical Department, calling for report as to whether any repairs are needed to —, communicated to the District Engineer for report after personal inspection of the tomb.	22nd do. do. No. 2,216 W.	....
447, 448	*Municipal Report.*— Proceedings, Financial Department, reviewing the annual — of Tellicherry Municipality for 1876-77, communicated to the District Engineer.	22nd do. do. No. 2,217 W.	....
449, 450	*Ganjam Hill Tracts.*— Proceedings, Judicial Department, reviewing the annual report on the administration of the — for 1876-77, communicated to the District Engineer.	22nd do. do. No. 2,218 W.	....
451, 552	*Salt Cotaurs, Mangalore.*—Proceedings, Revenue Department, sanctioning a bill of expenditure incurred for re-building a fallen portion of the revetment at the —, communicated to the District Engineer, South Canara.	22nd do. do. No. 2,219 W.	....
453—455	*Buckingham Canal.*— Every exertion to be made to get the Karedu Sub-division length of the — open for traffic.	22nd do. do. No. 2,220 W.	26th Oct. 1877, No. 3,534, Memo.
456, 457	*Records of the Dindigul Range Office, Madura District.*—Report on the neglected state of the —. Recorded.	22nd do. do. No. 2,221 W.	16th Nov. 1877. No. 1,678 W.
458, 459	*Payment for working on a sanctioned holiday.* — Orders in the Public Department on the subject of —, communicated to all officers of the department.	24th do. do. No. 2,230 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
460, 461	*Statement of payments* made in England during the month of October 1877, (Madras Harbour Works, General Charges), communicated to the officers concerned.	24th Dec. 1877, No. 2,231 W.	14th Aug. 1877, No. 33 Desp. 7th Aug. 1877, No. 563 W. 9th July 1877, No. 396 W. 9th June 1877, No. 211 W. 3rd Dec. 1875, No. 3,438. 25th May 1875, Nos. 1,433, 1,434.
462, 463	*Sub-Conductor Smith.*—Proceedings, Military Department, communicating letter from the Government of India deciding that in anticipation of any change in the organization of the Public Works Department Warrant Officers may at once be brought under the regulations of 1875 and that — is eligible to the two years' furlough applied for under those regulations, communicated to the Examiner, Public Works Accounts and to District Engineers.	24th do. do. No. 2,232 W.	22nd Sept. 1877, No. 769 W. 8th Oct. 1877, No. 41, Desp. 4th Oct. 1877, No. 868 W. 16th Oct. 1877 No. 42, Desp.
464, 465	*Floods in Tinnevelly.*—Proceedings, Revenue Department, communicating report of —, communicated to the District Engineer with remarks.	24th do. do. No. 2,233 W.	....
466, 467	*Lunatic Asylum, Madras.* —The District Engineer, Presidency, directed to submit an estimate for a wall surrounding the —, carrying out the work meanwhile on emergency.	26th do. do. No. 2,234 W.	....
468, 469	... ...	26th do. do. No. 2,235 W.	....
470, 471	*Advalanjaikarai, South Arcot District.*—Orders in the Revenue Department on report of unusually high floods in the Coleroon breaching the strong embankment known as — communicated to the District Engineer in continuation of telegram, dated 22nd December 1877.	26th do. do. No. 2,236 W.	....
472, 473	*New Kodikanul Ghaut, Madura District.*—Proceedings, Financial Department, sanctioning transfer of funds for the maintenance of the upper ten miles of the —, communicated to the District Engineer.	27th do. do. No. 2,237 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and date of previous Orders.
474, 475	*Local Fund Budget.*— Proceedings, Financial Department, reviewing the — of Masulipatam Circle for 1878-79, communicated to the Superintending Engineer, Kistna, for report with regard to paragraph 4.	27th Dec. 1877. No. 2,238 W.	27th Jan. 1877, No. 345 Mis.
476, 477	*Do.*—Do. do. of Vizagapatam Circle for 1878-79, communicated to the District Engineer.	27th do. do. No. 2,239 W.	....
478, 479	*Bills of Entry.*— Orders in the Marine Department on lists showing the different Government Departments that landed and shipped Government Stores during the month of November 1877, but have not forwarded —, communicated to the District Engineer, Presidency, for attention.	29th do. do. No. 2,248 W.	....
480, 481	*Red Hills Lake.*— Proceedings, Financial Department, issuing instructions for the immediate adjustment of the amounts due by the Madras Municipality for 1874-75 and 1875-76 on account of water supplied from the —, communicated to the Examiner, Public Works Accounts.	29th do. do. No. 2,250 W.	....
482	*Promotions* in the executive branch of the Public Works Department.	29th do. do. No. 2,251 W.	....
483—485	*Mr. Harris, District Engineer, Ganjam* — Report from — of his having taken charge of the Berhampore Range. Recorded.	29th do. do. No. 2,252 W.	19th Oct. 1877, No. 4,544 Memo.
486, 487	*Overseer Sergeant Fitzgerald sent from Burmah for Famine Duty.*— Proceedings, Revenue Department, sanctioning the disbursement to — of Rupees 26-14-7 per mensem from the date of vacating his appointment in Burmah, communicated to the Examiner, Public Works Accounts.	31st do. do. No. 2,253 W.	5th Nov. 1877, No. 1,506 W, Mis.
488, 489	*Famine Relief Officers whose services are about to be dispensed with.*—Proceedings, Revenue Department, issuing instructions to Collectors regarding —, completely closing and settling all public accounts before they leave their districts, communicated to District Engineers for guidance.	31st do. do. No. 2,254 W.	....
490—492	*Removal of the remains of the conservancy near the Palar Bridge at Vellore, North Arcot District.*— Proceedings, Revenue Department, sanctioning the excess expenditure of Rupees 2,688-4-2 incurred for the—, communicated to the District Engineer.	31st do. do. No. 2,255 W.	....

Back Numbers.	Subject.	Number and date of Order.	Number and date of previous Orders.
493, 494	*Relief operations in Oossoor and Kistnagiri Taluqs, Salem District.*— Orders in the Revenue Department on report on the progress of — for November 1877, communicated to the District Engineer.	31st Dec. 1877. No. 2,256 W.	....
495, 496	*Old Fort Wall of Vinukondah Town, Kistna District.*— Proceedings, Financial Department, approving the recommendation of the Board of Revenue that no charge shall be made against the Local Fund Board on account of utilizing for the construction of a Local Fund Dispensary the stones of the —, communicated to the District Engineer.	31st do. do. No. 2,257 W.	....
497, 498	*Municipal Report.*— Proceedings, Financial Department, reviewing the annual — of Srirungum Municipality for 1876-77, communicated to the District Engineer, Tanjore.	31st do. do. No. 2,258 W.	....
499, 500	*Yercaud Cemetery, Salem District.*— Proceedings, Ecclesiastical Department, recording letter from the Collector of Salem stating that instructions have been issued for the excavation of a drain parallel to the upper wall of the —, communicated to the District Engineer.	31st do. do. No. 2,259 W.	....
501, 502	*Relief Establishments in the North Arcot District.*— Proceedings, Revenue Department, communicating list of — transferred to the officers of the Department of Public Works, communicated to the District Engineer.	31st do. do. No. 2,260 W.	....
503, 504	*Road from Hanumanahalli to the main road from Bellary to Bangalore, Bellary District.*— Proceedings, Revenue Department, declining, with remarks, to sanction the estimate for constructing a —, communicated to the District Engineer.	31st do. do. No. 2,261 W.	....
505, 506	*Govindavadi Channel, North Arcot District.*— Proceedings, Revenue Department, sanctioning expenditure for removing prickly pear on the —, communicated to the District Engineer.	31st do. do. No. 2,262 W.	....
507, 508	*Sending people to Relief-works.*—Orders in the Revenue Department on the subject of —, communicated to the District Engineer, South Arcot.	31st do. do. No. 2,263 W.	....
509, 510	*Relief operations in Malabar.*—Orders in the Revenue Department relative to the cessation of —, communicated to the District Engineers.	31st do. do. No. 2,264 W.	....

Back Numbers.	Subject.	Number and date of Order.	Numbers and dates of previous Orders.
511—513	*Lieutenant Love, R.E., Commanding C Company, Sappers and Miners.*— Declines to sanction the services of — being placed at the disposal of the Public Works Department.	31st Dec. 1877, No. 2,265 W.	....
514, 515	*Monthly Appropriation Return, Imperial and Provincial.*— Orders on the — up to 8th December 1877.	31st do. do. No. 2,266 W.	....
516	The Accountant-General, Public Works Department, furnished with the above.	31st do. do. No. 2,267 W.	....